182 Orchard Hill Drive Cloverdale, Virginia 24077 P: 540.966.8655 F: 540.966.8656



Parent/Guardian:

We appreciate your patience as we navigate uncharted territory. This packet is to keep your child engaged in educational activities during the closure.

Please encourage your child to work through the packet to the best of their ability. There is no need to return the packet to the school once it is completed. Students should keep the packet and bring it back to school when school reopens. All students are encouraged to complete activities in Reading Plus if they have internet availability. Reading Plus is an adaptive literacy intervention program that develops the fluency, comprehension, and motivation students need to be successful readers. Students were given a letter with their Reading Plus log-in information on Friday.

Students:

We will miss seeing you every day! This packet is to help keep your mind sharp during the closure. Please work through this packet to the best of your ability. **Make sure you complete the assignments for your current classes.** (You should only complete the activities assigned to your level of English and math, science OR social studies and your current exploratory course.) Your teachers will be available to help you. Please use Google Classroom, Hangout Chat, or email to connect with your teacher should you need assistance. A list of teacher emails are on the back of this letter. Directions for using Google Hangout Chat are on page three. Teachers will be available online each day, Monday — Friday from 8:15 a.m. — 3:15 p.m.

reading 🕟 plus

Remember that Reading Plus is a valuable resource for you to improve your reading skills. Log-on and complete your activities if you have the ability to do online work! Remember you received a letter Friday with your log-in information. Your English teachers are available if you need your log-in information or assistance as well!

STAY HEALTHY READ MOUNTAIN! WASH YOUR HANDS!

CLEAN HANDS ARE SAFER HANDS
FOLLOW THESE 4 STEPS TO MAKE SURE YOUR MANDS ARE SAFE.

WET
Use warm or cold romning seatur.

LATHER
8 SCRUB
10 Hone Tended
11 Hone Tended
12 Hone Tended
13 Hone Tended
14 Hone Tended
14 Hone Tended
15 Hone Tended
16 Hone Tended
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17 Hone Tended
18 H

TRY A SCHEDULE TO MAKE SURE YOU ARE MAXIMIZING YOUR TIME. IT WILL ALSO GIVE YOU SOME BALANCE AND VARIETY IN YOUR DAY!

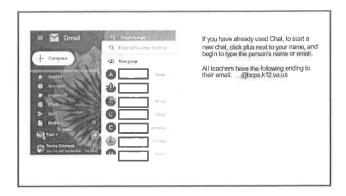
COVID-19 Daily Schedule for kids Before 9am Wake Up Watch TV, Ipad, 9-10am Free Time a walk, play in the yeld of walk dog 10-11am Outside Time Creative Time 11-12am 12-12:30pm 1-2pm Quiet Time ead, Puzzle, Nap, or colo Academic 2-4pm time Outside or Go outside to ride bikes 4-5pm or play in the house Play Time Dinner

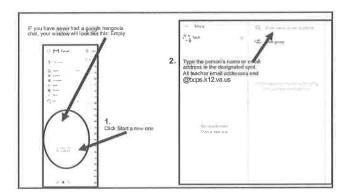
TEACHER EMAILS

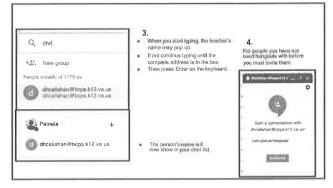
Teacher Name	Email	Teacher Name	Email
Mr. Anderson	swanderson@bcps.k12.va.us	Mrs. Mast	bmast@bcps.k12.va.us
Mr. Bolster	pbolster@bcps.k12.va.us	Mrs. Maust	hmaust@bcps.k12.va.us
Mrs. Bostic	mbostic@bcps.k12.va.us	Mrs. Milko	smilko@bcps.k12.va.us
Mrs. Bruce	sbruce@bcps.k12.va.us	Mrs. Moretz	cmoretz@bcps.k12.va.us
Mrs. Buchanan	kbuchanan@bcps.k12.va.us	Mrs. Myers	amyers@bcps.k12.va.us
Mr. Burton	cburton@bcps.k12.va.us	Mrs. Perrine	kperrine@bcps.k12.va.us
Mrs. Callahan	dhcallahan@bcps.k12.va.us	Mrs. Poats	cpoats@bcps.k12.va.us
Ms. Camper	agcamper@bcps.k12.va.us	Mrs. Poff	cpoff@bcps.k12.va.us
Mrs. Cross	bcross@bcps.k12.va.us	Mrs. Pyne	kpyne@bcps.k12.va.us
Mrs. Cundiff	acundiff@bcps.k12.va.us	Mr. Roberts	troberts@bcps.k12.va.us
Mrs. Duncan	jduncan@bcps.k12.va.us	Mrs. Rogers	brogers@bcps.k12.va.us
Mrs. Durham	bdurham@bcps.k12.va.us	Mrs. Rondeau	srondeau@bcps.k12.va.us
Ms. Evans	tevans@bcps.k12.va.us	Mrs. Sabin	csabin@bcps.k12.va.us
Ms. Fives	pfives@bcps.k12.va.us	Mrs. Savinda	lsavinda@bcps.k12.va.us
Mrs. Fletcher-Cox	dfcox@bcps.k12.va.us	Mrs. Schaeffer	hschaeffer@bcps.k12.va.us
Mr. Flippen	bflippen@bcps.k12.va.us	Mr. Shephard	cshephard@bcps.k12.va.us
Mrs. Glass	lglass@bcps.k12.va.us	Mrs. Simmons	hsimmons@bcps.k12.va.us
Mrs. Graham	hgraham@bcps.k12.va.us	Mr. Spencer	kspencer@bcps.k12.va.us
Mrs. Halsey	khalsey@bcps.k12.va.us	Mrs. Stevens	astevens@bcps.k12.va.us
Mrs. Hatfield	chatfield@bcps.k12.va.us	Mrs. Underwood	sunderwood@bcps.k12.va.us
Dr. Hawks	chawks@bcps.k12.va.us	Mrs. Vincent	jvincent@bcps.k12.va.us
Mrs. Hodnett	khodnett@bcps.k12.va.us	Mrs. Venable	mvenable@bcps.k12.va.us
Mrs. Hufton	shufton@bcps.k12.va.us	Mrs. T. White (Math)	twhite@bcps.k12.va.us
Ms. Janney	ljanney@bcps.k12.va.us	Mrs. V. White (SS)	vwhite@bcps.k12.va.us
Ms. Jones	ssjones@bcps.k12.va.us	Mr. Wiegandt	swiegandt@bcps.k12.va.us
Mr. Lang	tlang@bcps.k12.va.us	Mr. Woodard (Eng)	ewoodard@bcps.k12.va.us
Mr. Lawson	jlawson@bcps.k12.va.us	Mrs. Woodard (Civics)	hwoodard@bcps.k12.va.us
Mrs. Linkenhoker	blinkenhoker@bcps.k12.va.us	Mrs. Yamatani	myamatani@bcps.k12.va.us
Mrs. Malcolm	rmalcolm@bcps.k12.va.us	Mrs. Yates	jyates@bcps.k12.va.us
Mrs. Mandeville	jmandeville@bcps.k12.va.us	Mrs. Young	hyoung@bcps.k12.va.us

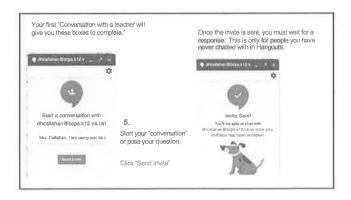
Google Chat From Your 1770 Email Account

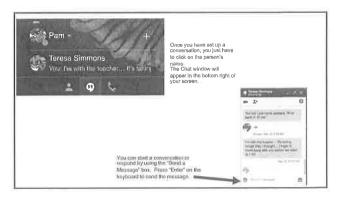
Slide 3 starts as if the user has never had a Google Hangout Chat.











Choose your assignments based on your class assignment below.

Advanced English 8

Mandeville 1A Graham 1A, 1B, 4A, & 4B

- 1. Choose a fiction or nonfiction selection to read each day. If you are currently reading a novel, you may continue using the novel you are reading. Non-fiction articles can be online or print sources.
- 2. Each day choose *one* activity from either the "Nonfiction Activity" or "Novel Study Choice" board.
- 3. You may keep the activities you complete in a Google Doc, journal, or on loose leaf paper (just remember to keep your work).
- 4. If you have any questions, please reach out to Mrs. Mandeville (<u>imandeville@bcps.k12.va.us</u>), Mrs. Graham (hgraham@bcps.k12.va.us) by email or Google Classroom.

English 8

Graham 3

Yates 1,3

Cross 3,4

- 1. Choose a fiction or nonfiction selection to read each day. If you are currently reading a novel, you may continue using the novel you are reading. Non-fiction articles can be online or print sources.
- 2. Each day choose **one** activity from either the "Nonfiction Activity" or "Novel Study Choice" board.
- 3. You may keep the activities you complete in a Google Doc, journal, or on loose leaf paper (just remember to keep your work).
- 4. If you have any questions, please reach out to Mrs. Graham (hgraham@bcps.k12.va.us), Mrs. Yates (jyates@bcps.k12.va.us) or Mrs. Cross (bcross@bcps.k12.va.us) by email or Google Classroom.

Don't forget that Reading Plus is available. Directions for utilizing Reading Plus are as follows:

- 1. The website for Reading Plus readingplus.com.
- 2. The site code is <u>rpreadm1</u>.
- 3. Your <u>username</u> is first initial, last initial, last 2 digits of your lunch number.
- 4. Your <u>password</u> id first initial, last initial, entire lunch number.

If you are a literacy strategies student, please see your assignment on the back.

Literacy Strategies

Directions: Read for 15 minutes each day. You may read to a parent, guardian, grandparent, or sibling. Record your reading using the chart below.

Date	Title

Apude Brok Thoice board

,					11 5 15 1	-
2014 Teachin	Naturalist	Logical- Mathematical	Visual-Spatial	Verbal-Linguistic		
02.014 Teaching with a Mountain View	List parts of the text that appeal to each of the five senses.	Sequence events from the text on a timeline.	Draw a diagram of something that was described in the book and label the parts.	Record at least 5 vocabulary words that you found interesting. Note why you chose those words.	Knowledge	
	Suggest a solution to a problem from the text.	Use a flow chart to explain several key events from the text.	Summarize events from the text by creating a comic strip.	Write a summary of the book or chapter that you read.	Comprehension	
(*)	Demonstrate how nature played a role in events from the text.	Demonstrate understanding of the information in from the text in a way that makes sense to you.	Research a person or event from the text and make a storyboard to explain what you found.	Create a conversation between two characters from your book.	Application	
	Choose a character and imagine he had to pack a suitcase for a trip. What would you find in it and why?	Explain how the text represents information that all students should know.	Use a graphic organizer to compare characters or events from the text.	Compare two characters from the text.	Analysis	
	Rate the actions of a person or people from the text. Explain why you rated each one this way.	Critique the motives of the characters in the text.	Develop a visual presentation to justify the actions of a character.	Justify the actions of a character in the book.	Evaluation	
	Make a hypothesis about what may have changed if a character were in a different setting in the book.	Consider how the author's life may have influenced how he wrote the text.	Create a chart with symbols that represent a person from the text. Give the meaning of each symbol.	Write a letter to the author of the book that describes your opinion of the book or a specific part of the book.	Synthesis	

Advanced English 8

Nonfiction Tic-Tac Toe Choice Board

10		
Summarize tonight's reading Include what is most important about the topic. Generate your own question about the topic.	What is the central idea of the reading? What does the author want you to understand?	From the reading, pick out two sentences that the author uses. Combine them into one.
Choose one new vocabulary word that you don't know. Based on context clues, what do you think the word means? Which words give you a clue to the meaning?	Complete your independent reading each night. Choose two after-reading tasks to make a tic-tac-toe by going through this center box.	Write a complete paragraph about your reading selection's main idea and supporting details. Use a variety of sentence types (simple, compound, complex, and compound-complex).
What is one of the features of this nonfiction text that helps you learn the information? How is it useful?	Make a personal connection to something you just read.	Describe the problem and/or the solution discussed in your text.

Nove Study Thoice Board

about two main Write a poem events in the STORY.

Draw a picture of the then write ten words main character, and that describe the main character.

the setting where the main settings Compare one of of the story to you live

strip that shows the sequence of Design a comic events in the STORY.

interesting. Use them Pick five vocabulary words you found in a different sentence

Write cause and statements for Pick 5 events. those events. effect

connection to your life, to Make connections to the another book you have read, and to the real story, including a World

your own description of described in detail in the story. Draw a detailed picture and then write Pick a scene that is what is happening.

in the story (or after the you think will happen later these things will happen? predictions about what end). Why do you think Write at least 4

and contrasting two organizer comparing characters in the Create a graphic STORY

problem from Write two sentences setting in the story Draw a picture that illustrates the main solution to a that describe the Suggest a the text

questions. Create Write a test/quiz an answer key. for the book Include 10

answers to the questions as the character would questions and write the Write an interview for a main character of the book. Ask at least 5

settings from Compare two the text.

walked into his room What would you find Choose a character and imagine you in his room, and why

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10 Nonfiction Activity Ideas for Kids

- 1. Create a comic strip version of the book or informational text
- 2. Make an illustrated glossary of terms.
- 3. Act out one or more important parts.
- 4. Make a game board of significant events or information in the text.
- 5. Write a list of things you learned then make a quiz to share.
- 6. Write an imaginary (or real) interview with the author.
- 7. Draw and label a step-by-step process.
- 8. Create a poster/collage that summarizes the book.
- 9. Take a survey of your family's knowledge about the topic then graph it.
- 10. Write how the info will affect your life.

Math 8

The following pages will help you to review the SOL's that we have already covered in math class this year. A suggestion would be to complete 1 page per day. Feel free to use your math notebook to help you if you have a question. You may also email your math teacher if needed.

Mrs. Hodnett khod Mrs. Savinda Isavi Mr. Bolster pbols

khodnett@bcps.k12.va.us Isavinda@bcps.k12.va.us pbolster@bcps.k12.va.us

Math 8 Strategies (currently enrolled students only)

We suggest that students enrolled in math strategies utilize IXL.com via their strategy account.

User ID:

first initial, middle initial, last name, last two digits of lunch number @ botetourtcounty

Password: first initial, last initial, lunch number

Please go under your grade level and look for starred skills.

If you have any questions, please contact your teacher through email.

8.14a and 8.14h

SELECTED RESPONSE

Select the correct answer.

- 1. Evaluate $2x + \frac{x}{5} 3x$ for x = 10.
 - (A) 20
 - (B) 22
 - **(C)** 52
 - (**D**) -8
- 2. Evaluate 2x(x-y)+(y-x) for x=3and y=2.
 - (A) 5
 - (B) -3
 - **(C)** 6
 - (\mathbf{D}) 0
- 3. Evaluate (y-2)(x-1) for x=-1 and y = 1.
 - (A) 1
 - (B) 0
 - (\mathbf{C}) -1
 - **(D)** 2
- 4. Evaluate (y-2)(x-1) for x=1 and y = -1.
 - (A) 1
 - (B) 0
 - (C) -1
 - **(D)** 2
- 5. Evaluate $4x^y$ for x = 2 and y = 3.
 - (A) 32
 - **B** 36
 - **(C)** 24
 - **(D)** 512

- 6. Evaluate $-\sqrt{x^2-4yz}$ for x=6, $y=\frac{1}{2}$, and z = 10.
 - (A) 4
 - (B) -4
 - $(\hat{\mathbf{C}}) \ 2\sqrt{22}$
 - **(D)** $-2\sqrt{22}$
- 7. Simplify a(a+a)+a(a-a).
 - (A) 4a
 - (B) $4a^2 + 2a$
 - (C) 2a²
 - **(D)** $3a^2 2a$
- 8. Simplify (h-7)(5)(h+7)(-2).
 - \bigcirc 10 $h^2 490$
 - **(B)** $10h^2 + 490$
 - \bigcirc -10 h^2 -490
 - $(\mathbf{D}) -10h^2 + 490$

Select all correct answers.

- 9. Which values of x make the expression $-x^2 + 8$ evaluate to 0?
 - (A) 4
- (D) -4
- \mathbf{B} $2\sqrt{2}$
- $(E) -2\sqrt{2}$
- **(C)** 8
- none of the above
- 10. Which values of q make the expression $\frac{1}{3}(q-9)^2 - 3$ evaluate to 0?
 - (A) 6
- **(D)** 3
- **B**) 12
- (E) 0
- **©** 9
- F none of the above

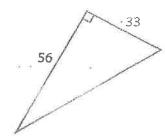
8.9a and 8.9b

math 8

SELECTED RESPONSE

Select the correct answer.

1. Find the length of the missing side.

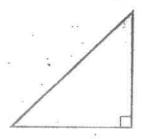


- A 23
- **B** 45.2
- **©** 65
- **®** 89
- 2. Find the length of the missing side.



49 in.

- 168 in.
- **(A)** 25 in.
- **B** 217 in. . .
- ① 175 In.
- ① $\sqrt{217}$ In.
- 3. Find the length of the legs of this isosceles right triangle if each leg is the same length and the hypotenuse is $\sqrt{50}$.



- (A) 5
- $\boxed{\mathbf{B}} \quad \frac{\sqrt{50}}{2}$
- \bigcirc $\sqrt{5} \cdot \sqrt{2}$
- D 5-/2

- 4. Which set of three numbers can be used to make a right triangle?
 - **A** 39, 41; 45
 - **B** 39, 49, 59
 - **©** 39, 69, 99
 - **1** 39, 80, 89
- 5. Why is it not possible to make a triangle using lengths of 10 ft, 60 ft, and 65 ft?
 - ⚠ because 10+60 is greater than 65
 - B because 102 + 602 does not equal 652
 - Decause 65-60 does not equal 10
 - because $(10 + 60)^2$ does not equal 65^2

Select all correct answers.

- 6. Which of these sets of side lengths can form a right triangle?
 - (A). 20 mm, 35 mm, 40 mm
 - **B** 15 ft, 36 ft, 39 ft
 - @ 25 m, 14 m, 20 m
 - 1 2 cm, 2 cm, 4 cm
 - 18 km, 15 km, 11 km
 - 1.5 in., 2.5 in., 1.5 in.

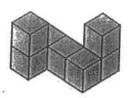
CONSTRUCTED RESPONSE

7. Find the length of the missing side. Round to the nearest tenth.



SELECTED RESPONSE

Select the correct answer. Use the diagram for 1-3.

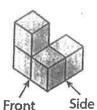


- 1. How many cubes would be visible from the top view of the figure?
 - A 6 cubes
 - B 5 cubes
 - © 4 cubes
 - 3 cubes
- 2. How many cubes would be visible from the front view of the figure?
 - A 6 cubes
 - B 5 cubes
 - © 4 cubes
 - (D) 3 cubes
- 3. How many cubes would be visible from the side view of the figure?
 - A 6 cubes
 - 6 5 cubes
 - 4 cubes
 - 3 cubes
- 4. If you were to physically construct a model of this figure, how many cubes would you need?

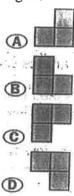


- A 6 cubes
- 1 5 cubes
- C 4 cubes
- ① 3 cubes

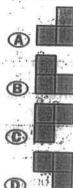
Use the diagram for 5-7.



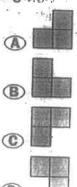
5. Which of these is the top view of the figure?



6. Which of these is the side view of the figure?



7. Which of these is the front view of the figure?



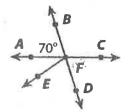
8.5

SELECTED RESPONSESelect the correct answer.

1. Find *x*.



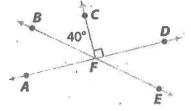
- $(C) x = 13^{\circ}$
- **(B)** $x = 10^{\circ}$
- **(D)** $x = 19^{\circ}$
- 2. What is the measure of ∠DFE?



- A 70°
- **B** 110°
- (C) 20°
- n cannot be determined

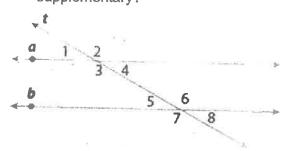
Select all correct answers.

3. Which of these statements is true?

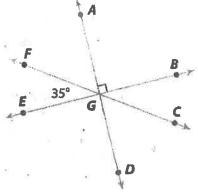


- ♠ ∠EFD and ∠BFC are vertical angles.
- \bigcirc m $\angle EFD = 50^{\circ}$
- **©** ∠*CFB* and ∠*EFD* are complementary.
- **①** $\angle CFB$ is adjacent to $\angle AFE$.

4. If m∠1= m∠5, which pairs of angles are supplementary?



- A angles 1 and 8
- (B) angles 1 and 7
- © angles 2 and 4
- ngles 2 and 3
- (E) angles 3 and 7
- none of the above
- 5. Which pairs of angles are complementary?



- ∠AGB and ∠EGD
- ∠AGF and ∠BGC

CONSTRUCTED RESPONSE

Can an angle be supplementary with itself? Explain.

SELECTED RESPONSE

Select the correct answer.

- A theater ticket's price is marked down by 30% on the last day. The original price was \$40. What is the sale price?
 - (A) \$12
 - **B** \$28
 - **©** \$52
 - (D) \$7
- 2. A widget is bought by a retail store for \$4 and sold for \$9. What is the markup?
 - ♠ 5% markup
 - ® 500% markup
 - ① 125% markup
 - 1 225% markup
- 3. A credit card charges 8% simple interest on the outstanding balance at the end of each month. How much interest is charged on a balance of \$350 after one month?
 - A \$378.00
 - **B** \$358.00
 - \$322.00
 - **D \$28:00**
- 4. A credit card charges 9% simple interest on the outstanding balance at the end of each month. What is the total amount owed on a balance of \$300 after one month of interest?
 - A \$27.00
 - B \$327.00
 - © \$273.00
 - \$309.00

- 5. A credit card charges 12% simple interest on outstanding balance at the end of each month. How much interest is charged on a balance of \$430 after one month?
 - **(A)** \$481.60
 - (B) \$5.16
 - **©** \$442.00
 - **(D)** \$51.60
- Membership in the chess club last year was 32 students. This year's membership is 18 students. This represents a:
 - (A) 77.78% increase
 - B 56.25% decrease
 - **©** 43.75% decrease
 - 14% decrease
- 7. An elephant weighed 300 pounds at birth and 1500 pounds at the age of 2 years. What was the percent increase in the elephant's weight?
 - **A** 500%
- **©** 400%
- **B** 1200%
- **1100%**

Select all correct answers.

- 8. The number of bears in a park increases over the years from 55 to 88. Which of the following statements is true?
 - The bear population increased by 60%.
 - The bear population increased by 160%.
 - The bear population decreased by 60%.
 - The bear population decreased by 62.5%.
 - The bear population increased by more than 100%.
 - The bear population increased by less than 100%.

8.3a and 8.3b

SELECTED RESPONSE Select the correct answer.

- 1. Between which pair of consecutive integers does $-\sqrt{13}$ fall on a number line?
 - A between -3 and -4
 - (B) between 3 and 4
 - **©** between -13 and -14
 - **(D)** between -12 and -13
- 2. Between which pair of consecutive integers does $\sqrt{215}$ fall on a number line?
 - A between -14 and -15
 - B between -14 and -16
 - © between 14 and 16
 - D between 14 and 15
- 3. Which of these is the best estimate for a solution of $x^2 = 172$?
 - $\bigcirc X = 11$
- = **(C)** x = 13
- **(B)** x = 12
- **(D)** x = 14
- 4. Which of these is a solution of $x^2 = 36$?
 - $X = \pm 4$
- $x = \pm 8$
- $(B) x = \pm 6$
- $\bigcirc x = \pm 9$

Select all correct answers.

- 5. Which of these is a solution of $x^2 = \frac{1}{81}$?
 - $X = \pm -$

- 6. Which of these is a possible solution of $x^2 = 256$?
 - (A) x = -16
 - **(B)** x = 16
 - (\mathbf{C}) x=0
 - **(D)** x = 22
 - (E) x = -22
 - (F) none of the above
- 7. Which of these is a possible solution of $x^2 = -256$?
 - (A) x = -16
 - **B** x = 16
 - (C) x=0
 - **(D)** x = 22
 - (E) x = -22
 - (F) none of the above
- 8. What are the possible integer solutions to the equation $x^2 = 289$?
 - (A) x = 17
- $(\mathbf{D}) x = 1$
- **B** x = -17
- **(E)** x = 289
- $(\mathbf{C}) x = 0$
- 9. Which of the following numbers fall between 15 and 20 on a number line?

- 10. Which of the following numbers fall between 0 and 1 on a number line?

SELECTED RESPONSE

Select the correct answer.

- 1. Anya is thinking of a real number. Is she thinking of a rational number?
 - (A) yes
 - (B) no
 - can't be determined
- 2. Syrio is thinking of an irrational number. Is he thinking of a real number?
 - A yes
 - ® no
 - can't be determined

Select all correct answers.

- 3. Which names apply to the number -13.999?
 - **A** integer
- (D) irrational
- (B) whole
- (E) real
- © rational
- (F) natural
- 4. Which names apply to the number

√49_?

- A integer
-) irrational
- B whole
- E) real
- © rational
- **Dinone of these**
- 5. Which names apply to the number

$$\frac{\sqrt{50}}{7}$$
 ?

- A integer
- B whole
- (C) rational
- (III) irrational
- (E) real
- none of these

6. Which names apply to the number $\sqrt{81}$?

- A integer
- (D) irrational
- (B) whole
- (E) real
- © rational
- (F) natural
- 7. Which names apply to the number $\sqrt{\pi^2}$?
 - (A) integer
- (D) irrational
- (B) whole
- (E) real
- © rational
- none of these

SELECTED RESPONSE Select the correct answer.

- 1. Between which pair of decimals does $\sqrt{13}$ fall on a number line?
 - A between 3.2 and 3.3
 - **B** between 3.4 and 3.5
 - **©** between 3.6 and 3.7
 - **(D)** between 3.8 and 3.9
- 2. The number e is an irrational number approximately equal to 2.718. Between which pair of square roots does e fall?

 - \triangle $\sqrt{2}$ and $\sqrt{3}$ \bigcirc \bigcirc $\sqrt{7}$ and $\sqrt{8}$

 - **B** $\sqrt{5}$ and $\sqrt{6}$ **D** $\sqrt{10}$ and $\sqrt{11}$
- 3. To the nearest hundredth, what is the value of $(\sqrt{2})^3$?
 - (A) 2.80
- **(C)** 2.82
- **(B)** 2.81
- **(D)** 2.83
- 4. Which of this set of numbers comes first when they are placed in descending order?

1900%
$$\sqrt{400}$$
 $\sqrt{225}$ $\frac{29.5}{2}$ 2.1×10^{1}

- (A) 2.1×10¹
- **B** 1900%
- 5. Which of the set of numbers from problem 4 is in the middle when they are placed in descending order?
 - \bigcirc 2.1×10¹
 - (B) 1900%
 - $\sqrt{400}$

Which of this set of numbers is in the middle when they are placed in order?

$$-\sqrt{0}$$
 3% $\frac{\pi}{3}$ -0.3 $\frac{\sqrt{5}}{2}$

Select all correct answers.

- 7. Which of the following numbers fall between 4.7 and 4.8 on a number line?
- **(D)** $1+\sqrt{15}$
- B 1.5π

- 8. Suppose each irrational number below is approximated by the whole number to which it is closest. Which of the irrational numbers have whole number approximations that are even?
 - A) 2√32
- (D) $\sqrt{52}-3$
- **(B)** $5+\sqrt{18}$
- **(E)** 3√14

Select the correct answer for each lettered part.

- 9. Determine whether each number is greater than $\sqrt{10}$.
 - a. $\sqrt{3} + \sqrt{6}$
- O Yes O No

b. $2\sqrt{3}$

O Yes O No

- O Yes O No
- d. $\sqrt{14} \sqrt{3}$
- O Yes O No

O Yes O No

Geometry / STEM



Maust/Malcolm 3rd Block

Geometry Review Packets

Packet 1 (Geometry Basics, Angle & Line Relationships)

- Apply the distance formula to find the length of a line segment.
- Apply the midpoint formula to find the coordinates of the midpoint of a segment.
- Solve problems by using angle relationships (vertical, complementary, supplementary, linear pair).
- Solve problems using the relationships between angles formed by the intersection of two parallel lines and a transversal, including: corresponding angles, alternate interior angles, alternate exterior angles, and consecutive interior angles.
- Use algebraic and coordinate methods to prove whether two lines are parallel.
- Apply the slope formula to find the slope of a line.
- Compare the slopes to determine whether two lines are parallel, perpendicular or neither.

Packet 2 (Logic)

- Use a counterexample to prove a false statement.
- Determine the validity of a compound statement (both conjunctions and disjunctions).
- Given a conditional statement, identify the inverse, converse, and contrapositive.
- Determine the validity of a bi-conditional statement.
- Recognize and use all symbols of formal logic (~, ∧, ∨, →, ↔, and ∴) and translate verbal
 arguments into symbolic form.
- Use the Law of Detachment and the Law of Syllogism to give valid conclusions.
- Use Venn diagrams to represent relationships, such as the intersection and union.
- Interpret Venn diagrams.

Packet 3 (Relationships in Triangles & Congruent Triangles)

- Solve problems using the Triangle Sum Theorem, angles in isosceles iriangles, and exterior angles of triangles.
- Determine whether a triangle could be formed given the lengths of the sides.
- Given the length of two sides of a triangle, determine the range in which the length of the third side must lie.
- Order the sides of a triangle by their lengths when given the measures of the angles.
- Order the angles of a triangle by their measures when given the lengths of the sides.
- Solve real-world problems given information about the lengths of the sides and/or measures of angles in triangles.
- Find side and angle measures in congruent triangles using algebraic methods.
- Determine whether two triangles are congruent using definitions, postulates, and theorems.
- Use coordinate methods, such as the distance formula and slope formula, to determine if two triangles are congruent.

Packet 4 (Similar Triangles & Trigonometry)

- Find side and angle measures in similar triangles using algebraic methods.
- Determine whether two triangles are similar using definitions, postulates, and theorems.
- Use coordinate methods, such as the distance formula and slope formula, to determine if two triangles are similar.
- Use the Pythagorean Theorem to solve problems in right triangles, including real-world situations.
- Use the Pythagorean Theorem Converse to prove whether a right triangle can be formed given three side lengths.
- Solve for missing side lengths in 45-45-90 and 30-60-90 triangles."
- Solve problems in triangles using sine, cosine, and tangent ratios.
- Solve real-world problems, using right triangle trigonometry and properties of right triangles.

Name:

Geometry Review: Packet #1

Topic #1: Distance & Midpoint

Distance Formula:

Midpoint Formula:

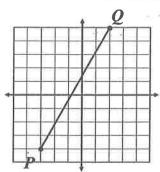
For questions 1-2, find the distance and midpoint of the segments given the endpoints.

1. \overline{AB} with A(3, 4) and B(-1, 10)

 $AB = \underline{\hspace{1cm}}$

Midpoint = _____

2.



PQ = _____

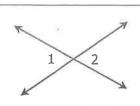
Midpoint = _____

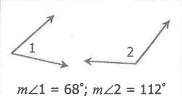
3. \overline{JK} has endpoints J(-1, 10) and K(-5, 2). \overline{MN} has endpoints M(9, -7) and N(1, -3). Is $\overline{JK} \cong \overline{MN}$?

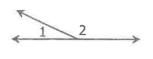
4. If Y is the midpoint of \overline{XZ} , Y is located at (3, -1), and Z is located at (11, -5), find the coordinates of X.

5. If *D* is the midpoint of \overline{CE} , CD = 9x - 7, and DE = 3x + 17, find CE.

Classify the relationship between angles 1 and 2.

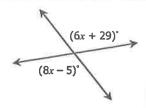




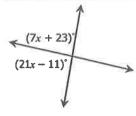




6. Find the value of x.



7. Find the value of x.

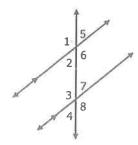


8. If $\angle A$ and $\angle B$ are complementary angles, $m\angle A=(2x+11)^\circ$ and $m\angle B=(10x-17)^\circ$, find $m\angle A$.

9. If $\angle N$ and $\angle P$ are supplementary angles, $m \angle N = (x+3)^\circ$ and $m \angle P = (7x-15)^\circ$, find $m \angle P$.

Topic #3: Parallel Lines & Transversals

10. Use the diagram below to classify each pair of angles.



a. ∠1 and ∠3 _____

b. ∠5 and ∠4 _____

c. ∠6 and ∠7

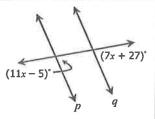
d. ∠3 and ∠6

11.	If a b	c and $m/9 = 76^{\circ}$.	find the measure of	each missing angle.
	40 0 1	701	THIS CHO THOUSAND OF	addit tillbolling dirigic.

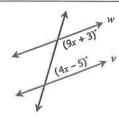
1/2	5 6	9\10
4 3	8 7	12 11
1	1	1
a	b	c

a. <i>m</i> ∠1 =	e. <i>m</i> ∠5 =	i. <i>m</i> ∠10 =
b. <i>m</i> ∠2 =	f. <i>m</i> ∠6 =	j. <i>m</i> ∠11 =
c. <i>m</i> ∠3 =	g. <i>m</i> ∠7 =	k. <i>m</i> ∠12 =
d. <i>m</i> ∠4 =	h. <i>m</i> ∠8 =	

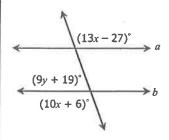
12. If $p \mid\mid q$, solve for x.



13. Find x so that $w \mid \mid v$.



14. If $a \mid\mid b$, solve for x for y.



15. Use the diagram to the right to answer the questions below.

- **a.** If $m \angle 3 = 107^\circ$, what must be $m \angle 16$ in order for $j \mid \mid k?$
- **b.** If $m \angle 15 = 84^\circ$, what must be $m \angle 14$ in order for $l \mid \mid m$?
- c. If $m \angle 3 = m \angle 6$, what converse proves $l \mid \mid m$?
- **d.** If $m \angle 7 = m \angle 15$, what converse proves $j \mid \mid k$?
- **e.** If $m \angle 5 + m \angle 9 = 180^\circ$, what converse proves $j \mid \mid k?$
- **f.** If $m \angle 12 = m \angle 13$, what converse proves $l \mid \mid m$?

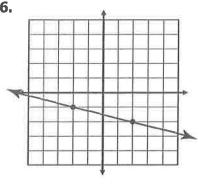
Topic #4: Parallel & Perpendicular Lines in the Coordinate Plane

Be able to find slope from a....

- Graph (Use rise/run). Don't forget zero slope and undefined slope!
- Equations given in Slope-Intercept Form ______ and Standard Form

For questions 16-17, give the slopes of the lines that are parallel and perpendicular to the line on the graph.

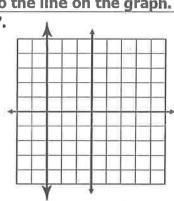
16.



Parallel Slope:

Perpendicular Slope:

17.



Parallel Slope:

Perpendicular Slope:

For questions 18-20, determine if \overline{AB} and \overline{CD} are parallel, perpendicular, or neither.

18. A(-4, 3), B(2, -12), C(10, 5) and D(0, 1)

19. A(2, 3), B(8, -15), C(-2, 2) and D(-5, 11)

20. A(5, 6), B(-1, 6), C(-2, -7) and D(-2, -4)

For questions 21-24, determine if the equations are parallel, perpendicular, or neither.

21.
$$y = x + 6$$
 and $x - y = 2$

22.
$$x - 2y = 8$$
 and $y = -2x + 1$

23.
$$4x + 3y = 9$$
 and $3x + 4y = 36$

24.
$$y = 5$$
 and $y = -2$

Name:	Geometry Review: Packet #2
Topic #1: Counterexample	
A counterexamp	ole is an example that proves a statement false. nts are true or false. If false, provide a counterexample.
1. All multiples of 4 are also multiple	s of 8
2. The base angles of an isosceles t	riangle are always congruent
3. The product of two perfect squar	es is always a perfect square.
4. Supplementary angles always con	mprised of one obtuse and one acute angle.
S 	
Topic #2: Compound Statements	
Conjunction	Read as:
Conjunction	True when statements are true.
Disjunction	Read as:
	True when statements is true.
	Inslate each compound statement. Determine the truth value. Prince q : Opposite angles of a parallelogram are congruent
5. p v q:	
4	Truth Value:
6. <i>p</i> ∧ <i>q</i> :	
	Truth Value:
7. p∨ ~q:	
	Truth Value:

Truth Value: ____

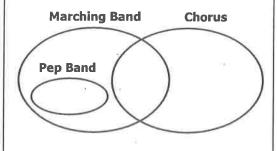
Topic #3: Conditional Statem	ients		
Conditional		Read as:	
8)	Re	lated Conditionals	
Inverse		Converse	Contrapositive
	. (
		conditional statements. circle; q : it is perpendicular	Determine the truth value. to the radius
9. Conditional:		,	
			Truth Value:
10. Inverse:			
			Truth Value:
11. Converse:			Truth Value:
12. Contrapositive:			
			Truth Value:
opic #4: Bi-Conditional Stat	ements	16	
Bi-Conditional	Read	as:	
ТТ	rue when b	oth conditional $(p o q)$ a	nd converse $(q \rightarrow p)$ are true!
		nd converse of each state true value of the bi-con	
13. It is Halloween if and only if i	t is October.	Truth Value:	
Conditional:			
Converse:		×	
2			

14. $x = 5$ if and only if $x^2 = 25$ Truth Value:	
Conditional:	
Converse:	
Topic #5: Laws of Logic	
Law of Detachment:	Law of Syllogism:
15. Write a valid conclusion from the given statements	using the Law of Detachment:
Given: If the football team scores a field goal, the Given: The football team scored a field goal.	they will win the game.
Conclusion:	
Given: If two triangles are congruent, then their congruent: If the corresponding sides of two triangles are congruent. Conclusion:	orresponding sides are congruent. are congruent, then their corresponding angles
Determine if the conclusion that follow If yes, state which law.	
17. Given: If Mark gets an A in math, then he will mal Given: If Mark makes honor roll, then his mom will Conclusion: If Mark gets an A in math, then his math, then his math.	I buy him a new skateboard.
Answer:	
18. Given: If a number is a whole number, then it is a Given: If a number is an integer, then it is a ration Conclusion: If a number is a rational number, the	al number.
Answer:	
19. Given: If a number is a multiple of 6, then it is divided in the second of the sec	sible by 3.
Answer:	

Topic #6: Venn Diagrams

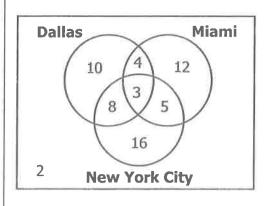
Draw a Venn diagram to represent each relationship. 21. No skew lines are parallel. 22. All roses are flowers. 23. Some prime numbers are odd.

The Venn diagram below shows the relationship between students involved with the pep band, marching band, and chorus. Determine if each statement is true or false.



- **24.** Some students are in the marching band and chorus. _____
- **25.** All students in the marching band are in pep band. _____
- **26.** No students in the pep band are in chorus. _____
- **27.** Some students are in the pep band, marching band, and the chorus. _____

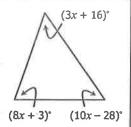
The Venn diagram below shows the number of students who have visited certain cities as reported by a survey.



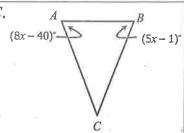
- **28.** How many students have been to New York City?
- 29. How many students have been to Dallas and Miami? _____
- **30.** How many students have been to Dallas and Miami, but not New York City? _____
- **31.** How many students have not been to Dallas? _____
- **32.** How many students have been to New York City or Miami?
- **33.** How many students have been to all three cities? _____
- **34.** How many students took the survey? _____

Topic #1: Angles in Triangles

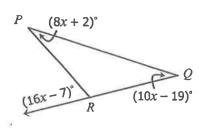
1. Find the value of x.



2. If AC = BC, find $m \angle C$.



3. Find $m \angle PRQ$.



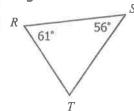
Topic #2: Relationships of Sides & Angles in Triangles

- **4.** Which side lengths could form a triangle? Check all that apply.
 - **a** 8, 8, 17
 - 2, 11, 12
 - **20, 6, 15**
 - **19, 34, 15**

- 5. Two sides of a triangle measure 7 feet and 19 feet. Write an inequality to represent the range of lengths for the third side.
- **6.** Two sides of a triangle measure 24 inches and 29 inches. Which of the following lengths could represent the third side? Check all that apply.
 - **a** 7
 - □ 31
 - □ 58
 - □ 60

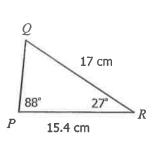
7. Two sides of a triangle measure 3 meters and 8 meters. Write an inequality to represent the perimeter of the triangle.

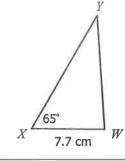
- **8.** In $\triangle DEF$, if DE = 18 ft, EF = 5 ft, and DF = 19 ft, order the angles from least to greatest.
- **9.** Order the sides of the triangle below from least to greatest.



Topic #3: Congruent Triangles

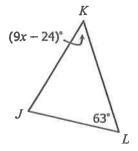
10. If $\triangle PQR \cong \triangle WXY$, find each value.

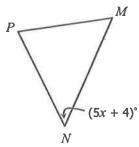




- a) PQ =_____ d) $m \angle Y =$ _____
- **b)** YW =_____ **e)** $m \angle Q =$ _____
- c) XY =_____ f) $m \angle W =$ _____

11. If $\triangle JKL \cong \triangle MNP$, find $m \angle M$.





Topic #4: Proving Triangles are Congruent

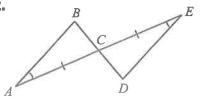
List the 5 methods to prove two triangles are congruent:

List reasons why SIDES are congruent:

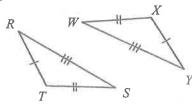
List reasons why ANGLES are congruent:

- Determine if the triangles are congruent. If yes, state which method and write a congruency statement.

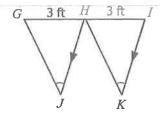
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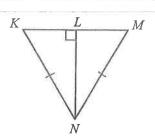
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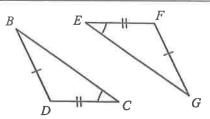
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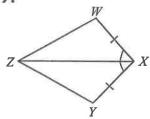
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16.

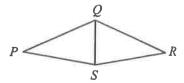


17.



18. Given: \overline{QS} bisects $\angle PSR$, $\angle QPS \cong \angle QRS$

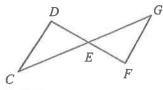
Prove: $\triangle QPS \cong \triangle QRS$



Statements	Reasons	
1. \overline{QS} bisects $\angle PSR$, $\angle QPS \cong \angle QRS$	1.	9
2. ∠ <i>QSP</i> ≅ ∠ <i>QSR</i>	2.	
3. $\overline{QS} \cong \overline{QS}$	3.	
4. $\triangle QPS \cong \triangle QRS$	4.	

19. Given: E is the midpoint of \overline{CG} and \overline{DF}

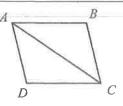
Prove: $\triangle CDE \cong \triangle GFE$



Statements	Reasons			
1. E is the midpoint of \overline{CG} and \overline{DF}	1.			
2. $\overline{DE} \cong \overline{EF}$; $\overline{CE} \cong \overline{EG}$	2.			
3. ∠DEC ≅ ∠FEG	3.			
4. $\triangle CDE \cong \triangle GFE$	4.			

20. Given: $\overrightarrow{AB} \parallel \overrightarrow{CD}$, $\overrightarrow{AD} \parallel \overrightarrow{BC}$

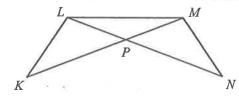
Prove: $\triangle ADC \cong \triangle CBA$



Statements	Reasons			
1. $\overline{AB} \parallel \overline{CD}, \overline{AD} \parallel \overline{BC}$	1.			
2. $\angle BAC \cong \angle DCA$; $\angle DAC \cong \angle BCA$	2.			
3. $\overline{AC} \cong \overline{AC}$	3.			
4. $\triangle ADC \cong \triangle CBA$	4.			

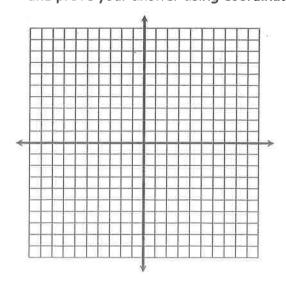
21. Given: $\overline{KL} \cong \overline{MN}$; $\overline{KM} \cong \overline{NL}$

Prove: $\Delta KLM \cong \Delta NML$



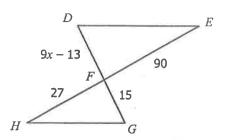
Statements	Reasons				
1. $\overline{KL} \cong \overline{MN}$; $\overline{KM} \cong \overline{NL}$	1.				
2. $\overline{LM} \cong \overline{LM}$	2.				
3. $\triangle KLM \cong \triangle NML$	3.				

22. $\triangle ABC$ has coordinates A(-8, 5), B(-4, 8) and C(-7, 2). If $\triangle DEF$ has coordinates D(-2, -1) and E(2, 2), what must be the coordinates of F in order for $\triangle ABC \cong \triangle DEF$? Explain why the triangles are congruent and prove your answer using coordinate methods.

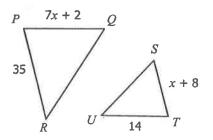


Topic #1: Similar Triangles

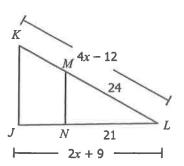
1. If $\triangle DEF \sim \triangle GHF$, find the value of x.



2. If $\triangle PQR \sim \triangle TSU$, find the value of x.



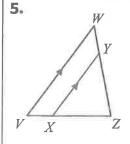
3. If $\Delta JKL \sim \Delta NML$, find JL.

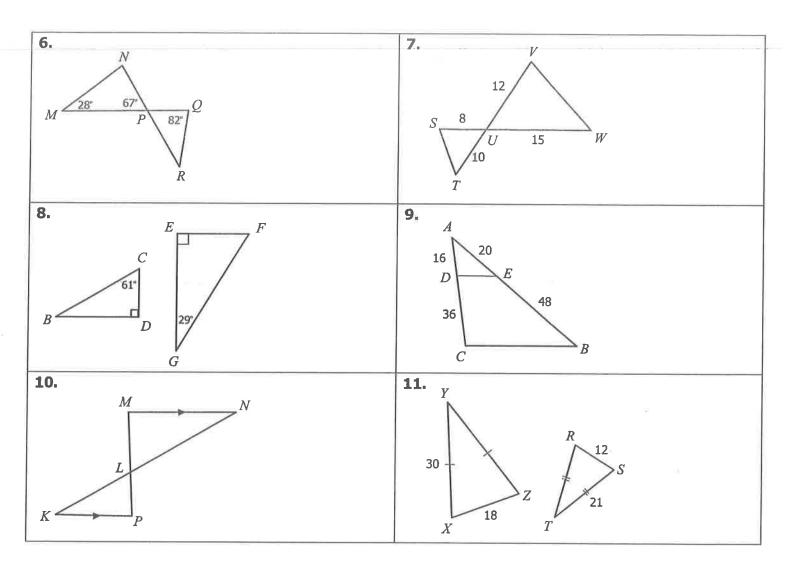


Topic #2: Proving Triangles are Similar

What are the methods to prove triangles are similar?

Determine if the triangles are similar. If yes, state which method.



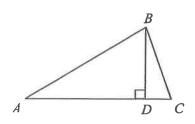


Topic #3: Pythagorean Theorem & Converse

	Pythagorean Theor	em:	Pythagorean Theorem Converse: Given $\triangle ABC$ with side lengths a , b , and c , if then, $\triangle ABC$ is a triangle.							
	G									
12. Which side lengths form a right triangle? Check all that apply.										
	16, 30, 34	12	2, 19, 23	8	3, 20, 22	Ã0	10.5, 1	14, 17.5		
	0									
			Oi .							
13.	Solve for x.		18		ve for x.	- (A-1)	x	10		

15. A baseball diamond is a square with each base 90 feet apart. Andy is standing on first base, while his teammate Logan is standing between 2nd and 3rd base. If the straight line distance from Andy to Logan is 98 feet, how far is Logan standing from 2nd base? Round your answer to the nearest tenth.

16. If DC = 8.4, BC = 30, and AD = 42, find AB. Round your answer to the nearest tenth.



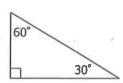
Topic #4: Special Right Triangles

Label the sides for each special right triangle.

45°-45°-90° Special Right Triangle



30°-60°-90° Special Right Triangle



Find each missing value.

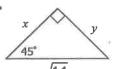
17.



x = _____

y = _____

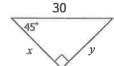
18.



x = ____

y = [______

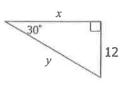
19.



x = ____

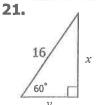
y = _____

20.



x =

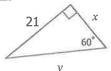
y =



x = _____

 $\nu =$

22.



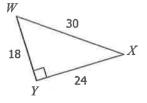
x =

y = _____

For Sine, Cosine, and Tangent, remember:

Find the value of each trigonometric ratio. Give your answer as a fraction in simplest form.

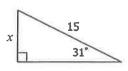
23.



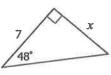
- Sin W = ____
- Sin X = _____
- Cos W = _____
- Cos X =
- Tan W =
- Tan X = _____

Solve for x. Round your answer to the nearest tenth.

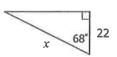
24.



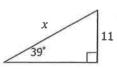
25.



26.



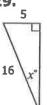
27.



28.



29.



30.



31. The angle of elevation from a buoy in the water to the top of a lighthouse is 68°. If the buoy is 300 feet from the base of the lighthouse, from the height of the lighthouse.

32. A wire is tied from the top of one tower to the top of another. The angle of depression from the top of the taller tower to the top of the shorter tower is 37°. If the wire is 100 feet long, find the distance between the towers.

Benchmark Test 1

1. Which elements of Set *Z* are both odd and multiples of 7?

$$Z = \{-21, -14, -7, 0, 7, 14, 21\}$$

- **A** {-21, 21}
- **B** {-21, -7, 7, 21}
- C {-14, 0, 14}
- D {-21, -14, -7}
- 2. Order the numbers from least to greatest.

$$\frac{26}{3}$$
, 6.8, $\sqrt{13}$, $\sqrt{\frac{54}{3}}$

3. Which of the following will result in a rational number? Select all that apply.

A
$$3\frac{2}{3} + \sqrt{\frac{36}{4}}$$

B
$$3\frac{2}{3} - \sqrt{\frac{6}{4}}$$

C
$$3\frac{2}{3} \div \sqrt{\frac{6}{4}}$$

D
$$3\frac{2}{3} \times \sqrt{\frac{36}{4}}$$

4. What is the value of *x* in the equation?

$$4x + 2 - (3 + 3x) = 7$$

- A 8/7
- B $\frac{13}{10}$
- **C** 6
- **D** 8
- 5. The sum of three consecutive odd numbers is 51. What are the three numbers?
- 6. Melissa buys $2\frac{1}{2}$ pounds of salmon and $1\frac{1}{4}$ pounds of swordfish. She pays a total of \$31.25, and the swordfish costs \$0.20 per pound less than the salmon. What would be the combined cost of 1 pound of salmon and 1 pound of swordfish?
 - A \$15.60
 - **B** \$15.80
 - **C** \$16.60
 - **D** \$16.80

- 7. Terrell arranges x roses at \$3.50 each with 10 carnations at \$2.25 each. He makes a bouquet of flowers that averages \$3.00 per flower. Write an equation to model the situation.
- **8.** Find the value of *x* in the equation.

$$\frac{3}{4}(8x-6)-2=\frac{1}{2}-x$$

9. Solve the equation E = v + lr for r.

A
$$r = \frac{E - V}{I}$$

$$B r = I(E - v)$$

$$C \qquad r = \frac{V + I}{E}$$

D
$$r = E - v - I$$

10. The formula for the volume of a square pyramid is $V = \frac{1}{3}s^2h$. Rewrite the formula in terms of h. Then find the height of a square pyramid with volume $V = 400 \text{ cm}^3$ and side length s = 10 cm.

11. Solve the inequality.

$$5(x + 1) - 10 \ge 2x + 3(x + 2)$$

A
$$x \ge -5$$

- all real numbers
- 12. Solve the compound inequality.

$$9 - 4x \ge 5 \text{ or } 4(-1 + x) - 6 \ge 2$$

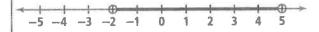
A
$$x \ge 1$$
 or $x \ge 3$

B
$$x \le 1$$
 or $x \ge 3$

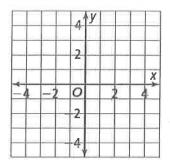
C
$$x \le -1$$
 or $x \le 3$

D
$$x \ge -1$$
 or $x \ge 3$

13. Write a compound inequality for the graph below.



16. Graph the equation y = 3x - 2.



17. What is the equation of the line that passes through (-5, 0) and (4, 3)?

A
$$y = \frac{1}{3}x + \frac{5}{3}$$

B
$$y = -\frac{1}{3}x - 5$$

C
$$v = 3x + 15$$

D
$$y = -3x - 15$$

18. Denzel must practice the piano for 210 min each week. He practices for 30 min each day. Write a linear equation to represent the number of minutes Denzel still has to practice after x days.

- **19.** For the graph of the equation you wrote in Item 18, what does the y-intercept represent?
 - number of days practicing each week
 - number of minutes practicing each day
 - C number of hours practiced each week
 - D number of minutes practiced each week
- 20. For which values of A, B, and C will Ax + By = C be a horizontal line through the point (-4, 2)?

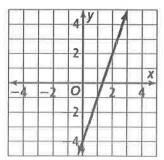
A
$$A = 1$$
, $B = 0$, $C = 2$

B
$$A = 1, B = 0, C = -4$$

$$C A = 0, B = 1, C = 2$$

D
$$A = 0, B = 1, C = -4$$

21. What is an equation of the line shown on the graph in point-slope form, using the point (1, -1)?



- 22. What is an equation in pointslope form of the line that passes through (-3, -1) and has a slope of 2?
 - **A** y-1=2(x-3)
 - **B** y + 1 = 2(x + 3)
 - C y-1=2(x+3)
 - D y + 1 = 2(x 3)
- 23. What is the equation in standard form of the line that has *x*-intercept -4 and *y*-intercept 3?
- **24.** What are the *x*-intercept and the *y*-intercept of the graph of 12x 4y = 48?
 - A x-intercept: 3; y-intercept: -12
 - B x-intercept: 4; y-intercept: 12
 - C x-intercept: 4; y-intercept: -12
 - D x-intercept: 3; y-intercept: 12
- 25. Dwayne has \$80 to spend on video games. Used video games cost \$10 each, and new video games cost \$20 each. What equation in standard form determines the number x of used video games and the number y of new video games he can buy?

- 26. For the situation in Item 25, which of the following represent possible combinations of video games that Dwayne can buy? Select all that apply.
 - **A** (0, 4)
- C (7, 2)
- B (2, 3)
- **D** (8, 0)
- **27.** Determine whether the lines are parallel, perpendicular, or neither.

$$2x + 4y = 32 \qquad y = -\frac{1}{2}x + 16$$

- **28.** Which lines are perpendicular to 3x y = 10? Select all that apply.
 - **A** y = 3x + 5
 - B $y = -\frac{1}{3}x + 17$
 - C x + 3y = 27
 - D $y-2=\frac{1}{3}(3x+36)$
- 29. Line *m* passes through point (-2, -1) and is perpendicular to the graph of $y = -\frac{2}{3}x + 6$. Line *n* is parallel to line *m* and passes through the point (4, -3). What is the equation in slope-intercept form of line *n*?
- **30.** What is the *y*-intercept of the line y 14 = 6(x 2.5)?

Benchmark Test 2

1. What is the value of x in this equation?

$$4(x + 6) - 3x = 26$$

20

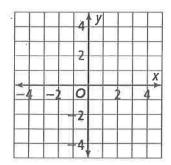
2

B 50 10

- 2. Kendall bought 6 notebooks and 3 pens for a total of \$27. The cost of one notebook is \$1.50 more than the cost of one pen. What is the combined cost of one notebook and one pen?
- 3. Solve the equation $A = \frac{1}{2}bh$ for h.
- 4. Graph the solution of the inequality on the number line.

$$2(x-3)-5x < x-2$$

6. Graph the linear equation $y = -\frac{2}{3}x + 4$.



7. Which of the following is an equation of the line through (11, -3) and (7, 9)?

A
$$y = -\frac{1}{3}x - \frac{20}{3}$$

B
$$y = \frac{1}{3}x - \frac{20}{3}$$

C
$$y = -3x + 30$$

D
$$y = 3x - 12$$

8. What is an equation in standard form of the line that has x-intercept 1 and y-intercept 4?

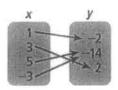
$$A \quad x - 4y = 4$$

B
$$4x - y = 4$$

C
$$4x + y = 4$$

D
$$x - 4y = -4$$

- 9. Write the equation in slopeintercept form of the line that passes through (12, 9) and is perpendicular to the graph of $y = -\frac{3}{4}x + 1$.
- **10.** Identify the domain and range of the function.



domain: _____

range:

11. A hardware store rents vacuum cleaners that customers may use for part or all of a day before returning. The store charges a flat fee plus an hourly rate. Write a linear function f for the total rental cost of a vacuum cleaner.

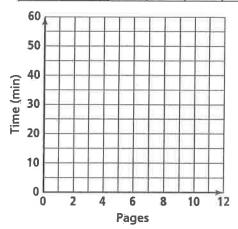
Hours	1	1.5	2	2.5	3
Cost (\$)	20	23	26	29	32

- **A** f(x) = 6x + 14
- B f(x) = 3x + 14
- C f(x) = 3x + 22
- D f(x) = 6x + 24
- **12.** In Item 11, how much is the flat fee that the store charges?

- 13. Which is a reasonable domain for the function in Item 11?
 - **A** $14 < x \le 32$
 - **B** $0 < x \le 6$
 - **C** $0 < x \le 12$
 - **D** $14 < x \le 86$
- 14. In Item 11, what would be the cost to a customer to rent a vacuum for 7 hours?

17. Each day, Amaya studies language flashcards and then reads some pages in a novel, as shown in the table. Make a scatter plot of the total time she studies as a function of the number of pages she reads. Draw a trend line.

Pages	4	6	8	10	12
Time (min)	27	32	39	45	51

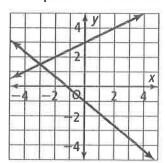


- 18. What type of correlation does the scatter plot in Item 17 show?
 - positive Α
 - В negative
 - C none
 - cannot tell
- 19. Which could be an equation of a trend line for the data in Item 17?
 - A y = 4x + 12
 - B y = 5x + 12
 - C y = 6x + 10
 - D v = 3x + 14

22. The table shows the ages and weights of six kittens. Do the data show a positive or a negative correlation?

Age (weeks)	2	4	6	8	10
Weight (oz)	8	14	23	31	42

23. Estimate the solution of the system of equations from the graph.



solution:

24. What is the solution of the system of equations?

$$y = \frac{2}{3}x + 5$$

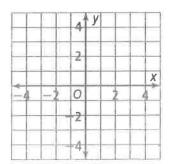
$$7x - 3y = 15$$

- A (0, 5)
- B $(2, \frac{19}{3})$
- C $(4, \frac{23}{3})$
- D (6, 9)
- **25.** What is the solution of the system of equations?

$$y = -\frac{7}{2}x + 11$$

$$7x + 2y = 20$$

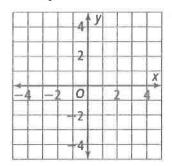
- 26. Ten granola bars and twelve bottles of water cost \$23. Five granola bars and four bottles of water cost \$10. How much do one granola bar and one bottle of water cost?
- 27. Graph the inequality $y > \frac{2}{3}x 1$.



- 28. In the graph of an inequality, the region below a dashed horizontal line through the point (4, 1) is shaded. What inequality does the graph represent?
 - A x < 4
 - B y < 1
 - C y > 1
 - D x > 4
- 29. Graph the system of inequalities.

$$2x - y \le 3$$

$$x - 2y \ge -2$$



30. For a fundraiser, a group plans to sell granola bars and bottles of water at the same prices as described in Item 26. The group wants the income from the fundraiser to be at least \$150. Write an inequality to show the numbers of granola bars x and bottles of water y that the group needs to sell.

Benchmark Test 3

- 1. Marisol buys 3 pounds of cheese and 3 pounds of sausage for a total cost of \$36. The sausage costs \$2.00 less per pound than the cheese. What is the combined cost of 1 pound of cheese and 1 pound of sausage?
 - \$16 Α
 - В \$12
 - C \$8
 - D \$6
- 2. Write a compound inequality for the graph below.

		_										
_				1					-			
-					Ψ-	-			_		\neg	
	-5	-4	-3	-2	-1	0	1	2	3	4	5	
	_		_			-		_			-	

3. Write the equation in standard form of the line that has x-intercept 7 and y-intercept 4. **6.** What is the solution of the system of equations?

$$4x - 3y = -1$$

$$3x - 9y = 33$$

7. Find the vertex of the graph of f(x) = -0.75 |x + 3|. Tell whether the graph opens upward or downward.

11. Simplify the following, and write your answer in standard form.

$$(-2x-3)-(3x^2-8x+9)$$

12. Find the product.

$$(7x^2 - 3)(8x^2 - 7x + 5)$$

13. Find the product.

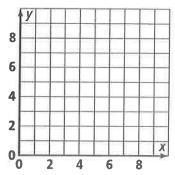
$$(3y - 5)(3y + 5)$$

- **14.** Which of the expressions shown has a GCF of $5ab^2$ with $15ab^3$?
 - A 30ab²
 - **B** $30a^2b^5$
 - C 25ab²
 - D 5ab
- 15. What is the factored form of

$$x^2 - x - 20$$
?

- A (x-5)(x-4)
- B (x-5)(x+4)
- C x(x + 4) 5(x + 4)
- D x(x-1)-20
- **16.** Factor $10y^2 + 54y 36$.
 - A 2(y-6)(5y+3)
 - B (2y + 12)(5y 3)
 - C 2y(5y + 27) 36
 - **D** $2(y+6)(5\dot{y}-3)$

- **17.** Factor the perfect square trinomial $4x^2 20x + 25$.
- **18.** The graph of $f(x) = ax^2$ opens upward and is narrower than the graph of $g(x) = x^2$. Which of the following could be the value of a?
 - A -0.5
 - **B** 6
 - **C** 0.25
 - D -2
- **20.** Graph the function $f(x) = 3(x 4)^2 + 5$ and identify its vertex.



vertex:

- **21.** Which of the following functions has a graph with a vertex that is a translation 6 units horizontally to the left of the vertex of the graph of $f(x) = (x 4)^2 + 8$?
 - A $h(x) = (x-4)^2 + 14$
 - B $h(x) = (x+2)^2 + 8$
 - C $h(x) = (x 10)^2 + 8$
 - D $h(x) = (x-4)^2 + 2$
- 23. What is the axis of symmetry of the graph of the function

$$f(x) = -4x^2 + 16x - 15?$$

- A x = -2
- $\mathbf{B} \quad y = 2$
- $\mathbf{C} \quad x = 2$
- D x = 4
- **24.** The function $h(t) = -16t^2 + 40t$ models the height, in feet, of a ball t seconds after it is thrown into the air. What is the maximum height the ball reaches after it is thrown?
 - A 25 ft
 - B 27 ft
 - C 50 ft
 - D 75 ft

25. Edgar builds a sand castle with a rectangular base. The side lengths of the base are 25 in. and 16 in. He wants to surround the castle's base with a moat that is w inches wide. Write a quadratic function A in standard form to represent the combined area taken up by the castle and the moat.

26. Which function best models the data in the table?

Time, $t(s)$	Distance, d (m)		
0	2.0		
0.5	4.6		
1	7.0		
1.5	6.5		
2	3		

- A $d(t) = -4.33t^2 + 1.64t + 9.45$
- **B** $d(t) = 1.63t^2 9.45t + 4.34$
- C $d(t) = 1.63t^2 + 9.45t 4.34$
- D $d(t) = -4.33t^2 + 9.45t + 1.64$

Benchmark Test 4

1. Which of the following will result in a rational number? Select all that apply.

A
$$5\frac{2}{3} \times \frac{\sqrt{16}}{2}$$

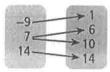
B
$$5\frac{2}{3} + \frac{\sqrt{7}}{4}$$

C
$$5\frac{2}{3} \div \frac{\sqrt{7}}{4}$$

D
$$5\frac{2}{3} - \frac{\sqrt{16}}{2}$$

- 2. Kelley has to work 45 hours at her job to earn enough money to buy a phone. She works 3 hours each day. If she has worked *x* days, write a linear equation to represent how many more hours Kelley must work to afford the phone.
- 3. For the graph of the equation you wrote in Item 3, what does the *y*-intercept represent?
 - A Total hours still needed to work after *x* days
 - B Work hours completed each day
 - C Total number of workdays needed to earn the phone
 - D Total number of work hours needed to earn the phone

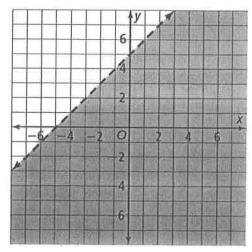
4. Identify the domain and range of the relation.



domain: _____

range: ____

5. Which inequality does the graph represent?



- A $y \le x + 5$
- C y < x + 5
- B y > x + 5
- D $y \ge x + 5$

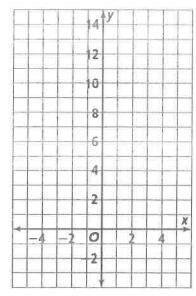
10. Identify the vertex and y-intercept of the graph of the function $y = (x + 2)^2 - 3$.

vertex:

y-intercept:

11. Solve $3y^2 - 17y + 10 = 0$ by factoring.

12. Find the solutions of $-4 + x^2 = -3x$ by graphing.



solutions:

13. What are the coordinates of the vertex of the graph of $y = x^2 + 14x + 33$?

15. Which equations have only one real solution? Select all that apply.

A
$$4x^2 + 5x + 3 = 5x + 3$$

B
$$2x^2 + x - 7 = x + 7$$

C
$$-9x + x^2 = -9x$$

D
$$5x^2 = 14$$

16. Solve the system of equations.

$$y = -4x$$

$$y = 2x^2 - 15x$$

- **17.** The graph of $f(x) = 2x^2 + x 15$ passes through the points (0, -15) and (-3, 0). What is a zero of the function?
- **18.** Solve x(18 x) = 2(9x 32).
- **19.** The height off the ground, in feet. of a squirrel leaping from a tree branch is given by the function $H(x) = -16x^2 + 24x + 15$, where x is the number of seconds after the squirrel leaps. How many seconds after leaping does the squirrel reach its maximum height?
 - Α 1.33 s
 - В $0.50 \, s$
 - 0.75 s
 - D 1.00 s

- 20. Which of the following are factors of x^8 – 256? Select all that apply.
 - A $x^4 16$
 - **B** $x^2 + 16$
 - C $x^2 + 4$
 - D $x^4 4$
- 21. Consider the functions $f(x) = 3x^2 - 14$ and g(x) = -12x + 4. Which statements about f + g are true? Select all that apply.
 - The domain is $x \ge 0$.
 - It is a quadratic function.
 - C The range is $y \ge -22$.
 - D The range is all real numbers.

- **26.** Complete using >, <, \ge , or \le and the correct value: The range of $f(x) = -\sqrt{x-7} + 5$ is f(x)
- **28.** If f(x) = 2x 5 and g(x) = 5x 2, what is $f \cdot g$?
 - **A** $f(x) \cdot (g)x = 10x^2 29x + 10$
 - **B** $f(x) \cdot (g)x = 10x + 10$
 - C $f(x) \cdot (g)x = 7x 7$
 - **D** $f(x) \cdot (g)x = 10x^2 + 29x 10$

Civics at Home Review Material:

Foundations of Government, Citizenship, Political Parties, and The Three Branches of Federal Government.

- 1. Citizenship Review Discussions: Tie what your child is learning in school to your home by engaging in conversation. Help make the learning more meaningful by connecting the value of citizenship and the rights, duties, and responsibilities that come with it to your own lives.
 - i. Share your family members or neighbors' journey to American citizenship.
 - ii. Tell your child about your own experiences that were touched by the freedoms of the First Amendment.
 - iii. Talk about your family's experiences with jury duty, the armed services, or paying taxes.
 - iv. Discuss your experiences with voluntary community service.
 - v. Share your thoughts on, and participation in, the voting process.
 - b. Students- write 3-10 sentences about your family discussion. If you'd like to record your discussion in a Google Doc and share it with us, we'd LOVE to see what you're working on, otherwise, record it in your notebook and we will discuss upon our return.:)

2. Review Political Parties by:

- a. Discuss the upcoming election, and make connections to what your child has learned in class.
- b. Share your voting card with your student, let them look at it and ask questions. Discuss where you go to vote and when you registered.
- c. Students- write 3-10 sentences about your family discussion. If you'd like to record your discussion in a Google Doc and share it with us, we'd LOVE to see what you're working on, otherwise, record it in your notebook and we will discuss upon our return.:)

3. Documents Review:

a. We know that the Preamble is the introduction to the Constitution and explains the goals and purposes of the United States- What elements of the Preamble are being implemented during our State of Emergency due to COVID-19?

4. Three Branches:

BRANCH	FEDERAL
Legislative	Main Job: Who's in Charge:
Executive	Main Job: Who's in Charge:
Judicial	Main Job: Who's in Charge:

5. Daily Life under COVID-19: Keep a daily living history journal. We are experiencing something very different with Covid-19. Keep a journal of how your day was different each day from a typical school day. What did you do? Did you enjoy your day? (can be in google docs, don't forget to share it with us!)

We would like to encourage you to get outside and enjoy your days. Have family time, read together, play games, watch movies, talk. Keep washing those hands. We can't wait to see you again and hear about your experiences.

I hope everyone stays well, please do not hesitate to email or message through Remind or Google Classroom with questions or concerns. For more review material or SOL preparation visit www.solpass.org, Civics and Economics. The password for solpass is: rmms AND/OR www.icivics.org

Warm Regards,

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Remind information:

text the codes to the number 81010

5. Name	Date	Period
Physical Science 8		
Identifying In	ndependent and Dependent in a Science Question	Variables
valiables by where they are in the que	sign question, you will be able to identify estion. The independent variable is state he dependent variable is stated at the e	ed in the first part of the sentence
Example: Will adding different substances IV - the different substances DV - the time it takes the water	V tances to water affect how long it takes added to water r to freeze	to freeze?
In the following sentences, identify the	e independent variables and the depend	ent variables.
1. Does the type of liquid (oil, wat	ter, alcohol, syrup, dish soap) affect the	time it takes to freeze?
COOI:	ol, paper, leather, styrofoam, cotton) aff	
Does the color of ketchup affect	et the number of times it is purchased by	consumers?
DV		
4. Does the type of surface affect	the height a marble will bounce?	

DV ____

IV _____

DV _____

5. Does the mass of an object affect how fast it falls from a given height?

Step 2: Collect Information (Part 2)

Write IV, DV, or CV in the blank after each description below to identify which type of variable is described.

1. The fa 2. This is 3. This is 4. This is 5. This is 6. This v. 7. There Carefully incorrect. line provid 8. Two g proble group The 9. Stude puzzle stude: The 10. Amy v.	Identify which variable ded. Be careful! Only Caroups of students were tems. Each group was g	ponding variable. langed by the experimated variable. ed as a result of chantable to obtain results. the of variable in an experimate below. Then experiments below. Then experiments variables (CV) is incorrect AND write one of variable is wrong timed to compare how	tnenter nenter ging the manip cperiment xamine the indet that are listed. the correct de in each experi	ependent variable (IV), ONE of these variables is escription of that variable on the
2. This is 3. This is 4. This is 5. This is 6. This vi 7. There Carefully idependent incorrect. line provid 8. Two g proble group The 9. Stude puzzle student The 10. Amy vi 10. Amy vi 11. This is 12. This is 13. This is 14. This is 15. This is 16.	s also known as the responsible the one thing that is chosen also called the manipulation of the factor that is affected ariable must be measured as the factor that is affected ariable must be measured as the many of this type and each of the experient variable (DV), and confidentify which variable ded. Be careful! Only of the composition of students were the each group was given the confidential of the careful of the composition of students were the confidential of the careful of	ponding variable. langed by the experimated variable. ed as a result of chantable to obtain results. the of variable in an experimate below. Then experiments below. Then experiments variables (CV) is incorrect AND write one of variable is wrong timed to compare how	nenter nging the manip experiment examine the indeathat are listed. The the correct death in each experi	ependent variable (IV), ONE of these variables is escription of that variable on the
3. This is 4. This is 5. This is 6. This vi 7. There Carefully idependent incorrect. line provid 8. Two g proble group The _ 9. Stude puzzle stude The _ 10. Amy v	s the one thing that is che also called the manipulation that is affected ariable must be measured and be many of this type and each of the experient variable (DV), and confidentify which variable ded. Be careful! Only of the composition of students were the each group was given as a second control of the careful of the	langed by the experimated variable. ed as a result of chantable to obtain results. pe of variable in an experiments below. Then experiments variables (CV) is incorrect AND write DNE variable is wrong timed to compare how	nenter gling the manip cperiment xamine the indet that are listed. In each experi	ependent variable (IV), ONE of these variables is escription of that variable on the
4. This is 5. This is 6. This v. 7. There Carefully independent incorrect. line provid 8. Two g proble group The 9. Stude puzzle stude The 10. Amy v.	s also called the manipulation of the factor that is affected ariable must be measured may be many of this type read each of the experient variable (DV), and confidentify which variable ded. Be careful! Only Coroups of students were terms. Each group was given to the factor of the manipulation of the experience of the experien	lated variable. ed as a result of chan able to obtain results. pe of variable in an expension of the property of the propert	ging the manip cperiment xamine the indethat are listed. the correct define and experi	ependent variable (IV), ONE of these variables is escription of that variable on the
5. This is 6. This vi 7. There Carefully is dependent incorrect. line provid 8. Two g proble group The 9. Stude puzzle student The 10. Amy vi	athe factor that is affected ariable must be measured may be many of this type read each of the experient variable (DV), and considerable (DV), and considerable (DV), and considerable considerable considerable company of students were the each group was gr	ed as a result of chanable to obtain results. De of variable in an expensive property of the	ging the manip cperiment xamine the indethat are listed. the correct define ach experi	ependent variable (IV), ONE of these variables is escription of that variable on the
6. This von	ariable must be measured may be many of this type read each of the experient variable (DV), and considerable ded. Be careful! Only Coroups of students were terms. Each group was group wa	able to obtain results. pe of variable in an exments below. Then expensions (CV) is incorrect AND write DNE variable is wrong timed to compare how	cperiment cxamine the inde that are listed. The correct de in each experi	ependent variable (IV), ONE of these variables is escription of that variable on the
7. There Carefully independent incorrect. line provid 8. Two g proble group The 9. Stude puzzle student The 10. Amy v	may be many of this typered each of the experient variable (DV), and considerable (DV). The last of the experience of students were the each group was group	pe of variable in an exments below. Then existant variables (CV) is incorrect AND write DNE variable is wrong timed to compare how	xperimentxamine the indethat are listed. The the correct de in each experi	ependent variable (IV), ONE of these variables is escription of that variable on the
Carefully a dependent incorrect. line provide group The 9. Stude puzzle studer The 10. Amy v	read each of the experint variable (DV), and cordidated light of the land of t	ments below. Then expensions tant variables (CV) is incorrect AND write DNE variable is wrong timed to compare how	xamine the inde that are listed. In the correct de In in each experi	ependent variable (IV), ONE of these variables is escription of that variable on the
dependentincorrect. line provid 8. Two group The 9. Stude student The 10. Amy v	nt variable (DV), and cor Identify which variable ded. Be careful! Only C roups of students were ems. Each group was g	nstant variables (CV) is incorrect AND write DNE variable is wrong timed to compare how	that are listed. I the correct de I in each experi	ONE of these variables is escription of that variable on the
The 9. Stude puzzle stude: The 10. Amy v	ems. Each group was g	timed to compare how	v fact they coul	
9. Stude puzzle studer The	DV: Amou		ms. One group s	ld complete a set of math o used calculators. The other
puzzle studer The	is wrong. Here is w	vhat it should be:		
10. Amy v		me it took each le was compared. girl students to complete the puzzl		The state of the s
10. Amy v Viva d	is wrong. Here is w	what it should be:		
	on the nails on her left h IV: Brand DV: Time	o nail polish will last long nand and one coat of of nail polish the nail polish lasts n hand she puts the n	Retro on the na	a nail polish. She put one coat o ails on her right hand.
The _	is wrong. Here is v	what it should be:		
paper	n thinks that a heavier particles to decide what	it amount of weight m of paper airplane nce the airplane flies	akes the airpla	dding small paper clips to his ne fly the farthest.
ine_	IV: Type of DV: Distance CV: Size of			

		Name:	
For each item below,	specify the independent and	l dependent variables, as well as con	
		fect the braking distance of a car	
I:	D:	C:	
2. The time it takes to r	un a mile depends on the pers	on's running speed.	
I:	D:	C:	
3. The height of bean pl	ants depends on the amount of	of water they receive.	
I:	D:	C:	
4. The higher the temper	rature of the air in the oven, the	ne faster a cake will bake.	
I:	D:	C:	
5. Lemon trees receiving	the most water produced the	most lemons.	-
I:	D:	C:	
6. An investigation found fertilized more.	I that more bushels of potatoe	s were produced when the soil was	
I:	D:	C;	Q.
7. Students measured the found that the temperatur	temperature of the water at di	fferent depths in Lake Skywalker and	
I;	D:	C;	
8. The amount of pollution different amounts of lead.	n produced by cars was meas	ared for cars using gasoline containing	
I:	D:	C:	
 Four groups of rats are relationships. Four groups of rats are relationships. 	first massed and then fed iden	tical diets except for the amount of	,
I:		C:	
		V.	

Identifying Variables & Designing Investigations Examples

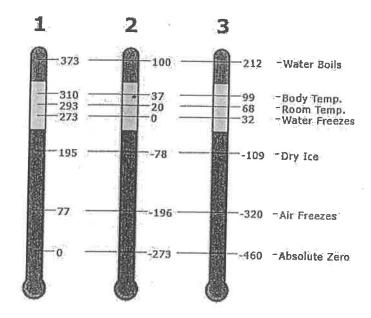
1.	For e	xample: Students of different ages were given the same jigsaw puzzle to put together. They were
	timec	to see how long it took to finish the puzzle. Identify the variables in this investigation.
	а.	
	Ь.	Dependent Variable:
	C.	Constants:
	d.	Control:
	t /i	
2.	Anoth	ner example: An investigation was done with an electromagnetic system made from a battery and wire
	wrapp	ed around a nail. Different sizes of nails were used. The number of paper clips the electromagnet
	could	pick up was measured. What are the variables in this investigation?
	a.	Independent Variable:
	b.	Dependent Variable:
	C.	Constants:
	d.	Control:
3.	One m	ore: The higher the temperature of water, the faster an egg will boil. What are the variables in this
		igation?
	a.	Independent Variable:
	b.	Dependent Variable:
	С.	Constants:
	d.	Control:
4	Lasta	ne. The temperature of water was massimed at different denths of a new 1 Mills of the second of the
٠.	in this	ne: The temperature of water was measured at different depths of a pond. What are the variables investigation?
		Independent Variable:
	ь Ь	Dependent Variable:
	c.	Constants:
	d.	Constants:
	۵.	W. Common
5.	Design	ing Investigations #1: The greater the amount of soap in a soap and water mixture, the bigger a
	soap b	ubble can be blown. What are the variables in this experiment?
	α.	Independent Variable:
	b.	Dependent Variable:
	C.	Constants:
	d.	Control:
6.	Design	ing Investigations #2: The farther a ball drops, the higher it will bounce. What are the variables in
	this ex	periment?
	a.	
	b.	Dependent Variable:
	C.	Constants:
	d.	Control:

SCI-6

Temperature+States of Matter Practice Questions Exam not valid for Paper Pencil Test Sessions

[Exam ID:B5LZ44

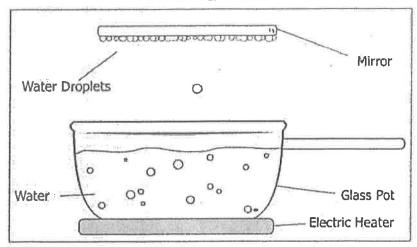
1



Thermometer number 1 represents temperatures in degrees —

- A Celsius
- **B** Absolute
- C Fahrenheit
- D Kelvin

Heating Water



The volume of water in the pot decreases during this investigation. Water droplets form on the mirror when positioned over the pot. In this setup, water —

- A vaporizes and then freezes
- B vaporizes and then condenses
- C condenses and then vaporizes
- D freezes and then vaporizes
- 3 Click on a box to choose each statement. You must select all correct statements.

Select the statements below that indicate absolute zero.

It is when water freezes.
It is when all molecular motion stops.
0°C
It is the coldest possible temperature.
0 K

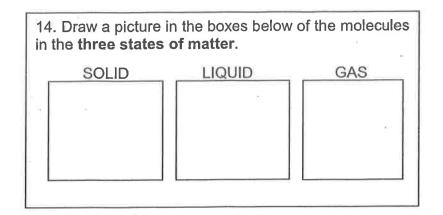
4 Directions: Click on the text you want to select. Be sure to select all of the correct answers.

Which of the following temperatures would NOT allow molecule movement?

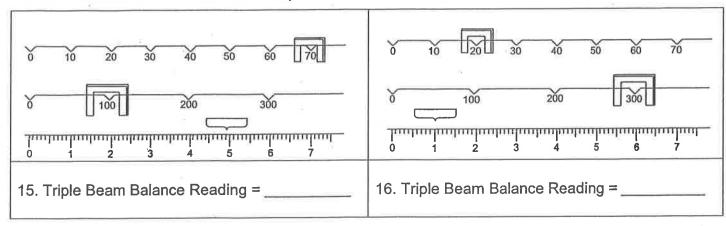
-175° C	-273° C	O K
100 K	0° C	32 K

5	On what temperature scale does water freeze at 0° and boil at 100°? A Kelvin B Fahrenheit C Bohr D Celsius
6	Directions: Type your answer in the box.
	Convert 43 °C to K. Type your answer in the box.
	K
7	The freezing point of Liquid Nitrogen is 77K. How would you calculate the freezing point of Liquid Nitrogen in degrees Celsius? A subtract 273 from 77K B add 32 to 77K C add 273 to 77K D subtract 212 from 77K
8	A student is measuring the temperature of a glass of ice while it is melting. The student measures the initial temperature and then waits three minutes before measuring the temperature again.
	What is the temperature most likely to be when it is measured the second time?
	A 32°C
	B 20°C
	C 10°C .
	<i>₽</i>
9	What is NOT a state of matter? A Liquid B Element C Gas D Solid

- After fishing in the ocean, a student left his fishing gear in the sun to dry. Later, he noticed that small white crystals had formed on the rod, reel, and fishing line. Which of these is the best explanation of what occurred?
 - A The water evaporated from the fishing gear, and salt from the ocean was left behind.
 - B The salt in the ocean water reacted with the fishing gear and caused it to rust.
 - $\ensuremath{\mathbf{C}}$ The water evaporated from the fishing gear, and sand was attracted to it.
 - D The fish that were caught left scales on the fishing gear.



Determine the measurements on the triple beam balance.*



Determine the volume and density of the objects below.

Mass of Object	Initial Volume	Final Volume	Volume of Object	Density of Object D = m/v
2 grams	40 30 20 10	40 30 20 10		

Name:	Date Given:	Due Date:
	Matter Part I Vocabulary	
Match the following terms with the	ir definitions.	
1. Matter	A. Measurement of the	ne amount of matter in an object.
2. Solid	B. State of matter wit	h definite volume but not definite shape.
3. Liquid	C. Amount of matter	contained in a given volume.
4. Gas	D. A characteristic that with another subst	at is observed when a substance reacts ance.
5. Mass	E. Amount of space a	n object occupies.
6. Volume	F. State of matter tha	t does not have a definite shape of
7. Density	volume.	
8. Physical Property		a substance that can be observed he substance into anything new.
9. Chemical Property	H. Anything that has i	mass, volume and is made of atoms.
	I. State of matter with	h definite shape and volume.
Complete the diagram below		
	PROPERTIES OF MATTER	
n la s ,		
10Property:		11 Property:
Characteristic that can be		Characteristic that is observed when
observed about an object without		a substance interacts or reacts with
changing the object.		another substance.
+		· · · · · · · · · · · · · · · · · · ·
12. Examples:	α μ	13. Examples:
2.		2.
3.		3.
4.		4.
5.		5.

Mass of Object	Initial Volume	Final Volume	Volume of Object	Density of Object D = m/v
24 grams	40 30 20 10	40 30 20 10		±.

19-30 Identify each of the properties below as	either a physical (P) or a	chemical (C) property.
19. Ability to burn (combustibility)		
20. Density	9 8	
21. Malleability		
22. Copper's ability to tarnish		
23. Mass		
24. Volume		
25. Melting point		
26. Ductility		
27. Flammability		
28. Smell		
29. Texture		
30. Hardness		

1.) Physical and chemical weather of these is an example of chemical	~ ~	e for breaking down rocks. Which
b.) Limestone reacts withc.) Water freezes in rock	as water evaporates from rock acid rain and dissolves. cracks and causes the rock to we on the surface of rocks.	
2.) The phase of matter an object	is in would be an example of	a:
a.) Physical property	b.) chemical property	
3.) Matter is:		With the company and approximate the control of the
a.) How much mass an objectb.) An objects mass and howc.) Anything that takes up spad.) None of the above	much space it takes up	be a substitute and substitute () and substitute (
4.) In which phase of matter are t	he atoms/particles not wantin	g to touch each other?
a.) Solid	b.) liquid	
c.) gas	d.) plasma	
In question 5 classify the following change mark a ; If it is a chemical		nical change. If it is a physical
5.) Water evaporating from the o	cean	
Multiple Choice: Choose the bes	st answer for the following qu	estions below.
6.) A key indicator that an exother	ermic reaction has occurred we	ould be:
a.) increase in temperature	e b) drop in temperature	c.) release of energy
d.) absorption of energy	e.) both a and c	f.) both b and d
7.) The following will only exhibi	t physical properties:	
a.) elements	b.) mixtures c.)	compounds
d.) both a and b	e.) both a and c	

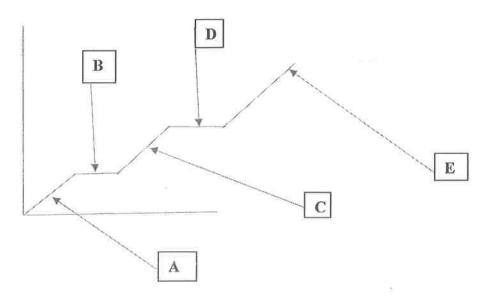
- 8.) The following will only exhibit **chemical** properties:
- a.) elements

- b.) mixtures
- c.) compounds

d.) both a and b

- e.) both a and c
- 9.) The particle model of matter states:
- a.) All matter cannot be created or destroyed but only changes forms
- b.) All matter is made up of substances that can be either chemically or physically combined together.
- c.) All matter is made up of tiny particles called atoms that are constantly in motion. Their speed depends on the phase of matter it is in.
- d.) all of the above
- e.) none of the above

Use the following graph below to answer question 10



In the following graph above energy is added to a substance to see if temperature and phase changes. Please identify the following:

- 10.) Section **B** of the graph is identifying:
- a.) liquid phase
- b.) solid phase
- c.) melting point

- d.) freezing point
- e.) both c and d
- f.) evaporation/condensation

11.) After looking on your copy of	f the periodic table, Ox	xygen-16 is an example o	f:
a.) An element	b.) An isotope	c.) A charged	ion
12.) What determines if an elemer	nt is an isotope?		
a.) The number of protons	b.) The number of e	lectrons	
c.) The number of neutrons	d.) The number of e	nergy levels around the r	nucleus
e.) The atomic number			
13.) In order to become chemically	y stable atoms gain, los	se, or share their:	
a.) Protons b.) Electrons	c.) Neutrons	d.) Isotopes e.) Vale	ence electrons
	- 2		
14.) Which of the following below	is NOT an example of	f nuclear technology:	
a.) Tracers b.) X-Rays c.) M	IRI's d.) Fission re	eactors e.) Space explo	oration
True/False: For the below true or circle/shade B on your scantron for		/shade A on your scantro	on for true or
15.) The Lewis Dot or Electron Doenergy levels with a representative		f the electrons within an e	elements
16.) Absolute zero is:			
a.) the point when an object has no	molecular motion.	b.) -273 degrees Celsi	us
c.) O degrees Kelvin d.) n	one of the above	e.) all of the above	
17.) A factor that you change on	purpose in order to to	est your hypothesis is th	ne
a.) dependent variable b.) in	ndependent variable	c.) constant variable	d.) control

18.)	409	grams	equal's	milligrams.
100	10/	CT STATED	od mar	ARREST SERVICES

a.) 4.0900

b.) 409,000

c.) .40900

d.) 40,900

19.) 3.6 x 10⁻⁴ written in standard notation be:

a.) 36000 **b.**) 3600

c.) 0.0036

d.) 0.00036

Use the following sample problem to answer questions 20-21

Sample B

A student conducted an investigation to determine the effect of water temperature on the amount of sugar that dissolves in a beaker of water. Identify components for trial 1 of this investigation.

Beaker Number	Amount of Water (mL)	Temperature of Sugar (degrees C)	Temperature of Water (degrees C)	Amount of Sugar Dissolved (g)
1	100	20	5	185
2	100	20	10	189
3	100	20	15	194
4	100	20	20	204

20.) What was a constant?

a.) Amount of water

- b.) Temperature of sugar
- c.) Temperature of water
- d.) both a & b

21.) What were the variables?

a.) Amount of water

b.) Temperature of sugar

c.) temperature of water

d.) both a & b

stude degre	ent recorded ees C and 30	a total of 11 measur	ements, one at e hange in the pro	ing at different temperations and 2 degree interval between the control of the co	ween 10
b. c. d.	Decreasing Repeating t Producing a	the number of variable the range of the inde the experiment several a graph of numerical	pendent variable l times observations	*	
23.) I	n a chemical	equation,	DENVALE.		
a.)	Products ap	pear before the arrow	b.) F	Reactants appear before the	arrow
c.)	An arrow a	ppears after the produ	ncts d.) n	one of the above	of Just Wilde
24.) T	he substances	that you start with in	a chemical react	ion (initial substances) are o	alled:
a.)	Products	b.) Polars	c.) Ionics	d.) Reactants	
	On a pH scale) 7-14	e the following are a b.) 8-14	lways considere c.) 0-7		.) 0-6
26.) V	What pH is co	onsidered to be a we	ak acid?		
a.) 0		b.) 4	c.) 7	d.) 6	
	$2Mg + O_2$	\rightarrow 2MgO + 6	energy	ical equation?	
28.) H	Iow many Ca	arbon atoms are the	re in the chemic	al formula C6H12O6?	
a.) 6	b.) 4	c.)12	d.)9		
,		al atoms or molecule: Ca + 2H ₂ O -> 0		re represented on the <u>reacta</u>	nt side of the
a.) 1		b.) 2		c.) 3	d.) 4

30	a.) In the following	equation, H ₂ SO ₄		The <u>H₂SO₄</u> is:		
	c.) both the react	ant and the product	d.) 1	the coefficient		
Us	se the following h	ypothesis to answer q	uestions 31 -	-33		
Hypothesis: I believe that if I test different brands of batteries to see which one would la longest, then Duracell will have the longest average lasting time because Duracell has a core that conducts electricity easier.						
31	.) What is the ind	<u>ependent variable</u> sta	ited in the hy	ypothesis?	d.) Productry e - c	
a.)) different brands o	f battery	b.) Average	e lasting time	m po krat ja vijika jel (18	
c.)) cost of batteries			of batteries	1 Protection of the	
32	2.) What is the dep	endent variable state	ed in the hyp	othesis?		
a.)) different brands o	f battery	b.) Average lasting time			
c.) cost of the battery			d.) None of the above			
	. Mengan	ollowing would be a c				
a.)	brand of battery		,	time of batteries		
c.)	the device testing	the battery	d.) The cos	t of the batteries		
		6				
34	.) 409 grams equa	l'smi	lligrams.	×		
a.)	4.0900	b.) 409,000		c.) .40900	d.) 40,900	
		5. 20. 75. of a control of				
35	5.) 3.6 x 10 ⁻⁴ writte	en in standard notatio	on De.			
a.)	36000	b.) 3600	c.) 0.0036		d.) 0.00036	
36	.) 22 cm =	m				
a.)	.022 m	b.) 2200 m	c.) .22 m	d.) 22	20.0 m	

Semi-conductors

metals

Take on properties of both metals and non-

Name:		Da	ite:		C	lass Perio	d:
Part One: Identify write in the elemen			nts are me	etals, no	onmetals,	or metalloi	ds. Also, correct
Elements Name		Elem	ents Sym	ıbol		Metal, No metalloid	on-metal, or
Beryllium							
Chlorine							
Phosphorus							
Silicon				(1			
Sodium							
Part Two: On the Number, and specinoble gases).	_	_			netal (alka	ali, alkaline	
Elements Name	Group/Fami Number	ly	Period/l Number		Meta metal Meta	,	Specific type of metal or non-metal (alkali, alkaline earth, transition, noble gases).
Rubidium							
Argon							
Calcium							
Chromium							
Cobalt							
Krypton							
Part Three: Ident metal, contact and the conta				ysical pı	roperties/	characteris	tics goes with either
Characteristic:				Metal	, Non-me	tal, or Met	alloid?
Luster							
Brittle							
Ductile							
Great conductor o	f electricity ar	nd hea	t				
Dull	-						
Mostly Gases							
Mostly Solids							

Part Four: Identify the Atomic Number, Atomic Mass Unit, Atomic Mass Number, Protons, Electrons, and Neutrons for the following elements:

Elements Name	Atomic Number	Atomic Mass Unit	Atomic Mass Number	Protons	Electrons	Neutrons
Scandium						
Boron						
Iodine			43			
Krypton						
Platinum		1				
Iron						

Part Five: Rac	lioactive elem	ents.				
1.) Elements vare they stable			2 and above are	e typically rad	ioactive. Beca	suse of this
What two procis building up up.				`	_	
a.) b.)			-			
2.) What is the	e biggest probl	em with nucle	ear energy?			

Name:	Date:	Class Period:	
\ -			

What is the atomic number, mass number, number of protons, electrons, and neutrons in the following elements? Fill in the following blanks for each element.

Elements Name:	Symbol	Atomic	Atomic	# of	# of	<u># of</u>
		Number	Mass	protons	electrons	neutrons
			Number			
1.) Lead						
2.)						45
						45
3.)	Bi					
4.) Strontium						
5.) Sulfur						
6.)		63				
7.) Mendelevium						
8.)				102		
9.) Yttrium						
.0.)			244			
11.) Chlorine						
12.)	Sb					
13.)	Lr					
14.)	K					
15.)		58				
16.) Nobelium						
17.) Oxygen						
18.)			252			
19.)						153
						153
20.)				34		
21.)					62	
22.) Rubidium						
23.)	Al					
24.) Carbon						
25.)		87				

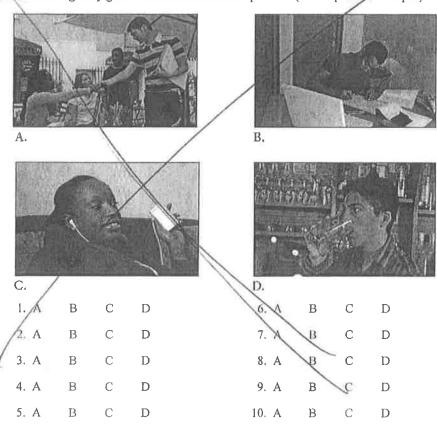
Nom Date

Unités 1-4

Leçons 1A-4B

EXAM I

1 À l'écoute Look at the four photos, You will hear various people make comments or ant questions. Select the scene that most logically goes with each comment or question. (10×1 pt. each = 10 pts.)



2 Complétez Say what these people are doing by completing each sentence with the correct form of the logical verb. $(8 \times 1 \text{ pt. each} = 8 \text{ pts.})$

1. Le week-end, mon père	à la maison.	(travailler /	bayarder)
--------------------------	--------------	---------------	-----------

- 2. Ma sœur et moi, nous ______ dans une chorale. (chanter / chercher)
- 3. Je/J' ______ la psychologie. (manger / étudier)
- à la cantine, n'est-ce pas? (déjeuner / dépenser)
- 5. Florence et Nicole _____ au parc. (passer / patiner)
- 6. Moi, je _____ au Québec l'été (summer). (donner / voyager)
- 7. Mon colocataire et moi, nous ______ un grand appartement. (partager / oublier)
- à votre examen de physique. (enseigner / échouer) 8. Vous

3 Comment? You have a cold and your ears are blocked up. You keep asking said. Complete each question with the correct interrogative word or expressi 1. —Je prends trois croissants. ———————————————————————————————————	
croissants prenez-vous? 2. —Ma copine Cécile danse bien. danse-t-elle? 3. —Mon prof de maths habite près du cinéma. est-ce qu'il habite? 4. —Je téléphone à Bruno. téléphones-tu? 5. —Mes parents sont en vacances en février. est-ce qu'ils sont en vacances? 6. —Il est tard. Il faut partir (leave). heure est-il? 4 Quelle heure est-il? It is six hours later in Paris than it is in New York. Writ (in numbers) based on the time given for New York. Use the 12-hour clock. (Modèle À New York, il est une heure dix de l'après-midi.	
2. —Ma copine Cécile danse bien. —	
danse-t-elle? 3. —Mon prof de maths habite près du cinéma. —est-ce qu'il habite? 4. —Je téléphone à Bruno. —téléphones-tu? 5. —Mes parents sont en vacances en février. —est-ce qu'ils sont en vacances? 6. —Il est tard. Il faut partir (leave). —heure est-il? 4 Quelle heure est-il? It is six hours later in Paris than it is in New York. Writ (in numbers) based on the time given for New York. Use the 12-hour clock. (in numbers) based on the time given for New York. Use the 12-hour clock. (in numbers)	
 3. —Mon prof de maths habite près du cinéma. ———————————————————————————————————	
est-ce qu'il habite? 4. —Je téléphone à Bruno. —	
 4. —Je téléphone à Bruno. 	
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(in numbers) based on the time given for New York. Use the 12-hour clock. (Modèle À New York, il est une heure dix de l'après-midi.	
in i ming of the ways freed out with the 300 c	
1. À New York, il est trois heures et quart du matin.	
À Paris, il est.	

À Paris, il est

À Paris, il est ___

À Paris, il est _

À Paris, il est ___

À Paris, il est ___

3. À New York, il est quatre heures vingt de l'après-midi.

4. À New York, il est dix heures moins le quart du matin.

6. À New York, il est huit heures quarante du soir.

5. À New York, il est deux heures trente-cinq de l'après-midi.

Nom	Date
5 Expressions idiomatiques Com (6 × 1 pt. each = 6 pts.)	aplete each of these conversations with the correct form of être or avoir.
 Mon frère est très jeune. Ah bon? II 	quel âge? ੍
2. —Nous à I —Vous aimez voyager?	Paris,
3. —Où va Zaïd? —Il n'pas	avec toi?
4. —Est-ce qu'Alix et Mattéo p —Oui, ilsl	
 —Lilou et toi, vous gagnez (a —Oui, nous 	
6. —Il fait froid (<i>It's cold</i>). Je n —Tu raison	-
6 Les contraires Say that these bronearly the opposite. (6 × 1 pt. eac	others and sisters are not like each other by using an adjective that means $h = 6$ pts.)
Modèle	
Marc est grand, mais Martine est	petite.
1. Caroline est travailleuse, mais	s Léo est
2. Thomas est agréable, mais So	ophie et Anne sont
3. Aïcha est réservée, mais Xavi	er est
4. Abdul et Mahmoud sont ennu	ıyeux, mais Christine et Lydia sont
5. Aziz est heureux, mais Chloé	est
6. Karine est optimiste, mais Me	Slanie et Laurent sont

to say where they are going. $(5 \times 2 \text{ pts. each} = 10 \text{ pts.})$

5. Nathalie a besoin de sucre et de beurre. Elle

1. J'ai envie de regarder un film. Je ___

3. Tu es très malade. Tu

7 Où va-t-on? Based on what these people say they feel like doing or need to do, use a form of the verb aller

2. Nous avons envie de danser, Nous _______,

4. Vous avez envie de nager. Vous

8 Une bonne vie These people are trying to improve their lives. Complete the sentences with the correct forms of the verbs in the list, $(5 \times 1 \text{ pt. each} = 5 \text{ pts.})$

> choisir obéir finir réfléchir grossir réussir

- 1. Nous _____ de lire (read) ce livre.
- 2. Tu _____ beaucoup plus à tes problèmes.
- _____ à mes parents. 3. Ma sœur ___
- 4. Vous <u>à regarder moins de (less) télé.</u>
- 5. Mes camarades ______ de l'eau, pas des boissons gazeuses.
- 9 Où est-ce? Complete each sentence with a preposition of location based on the photo. $(6 \times 1 \text{ pt. each} = 6 \text{ pts.})$



1. Où sont les affiches? Elles sont _____ le mur (wall). 2. Où est l'examen du fils? Il est ______ les mains (hands) de sa mère. 3. Où est le fils? Il est sa mère. 4. Où sont les tables? Elles sont ______ la mère. 5. Où est l'affiche (poster) du chat noir? Elle est ______ la mère. 6. Où est l'affiche du chapeau (hat)? Elle est ______ l'affiche du chat noir.

Nom	Date
10	C'est à qui? Claire and Aurélie are cleaning up after an exam study party and several items were left behind. Complete each sentence with a possessive adjective in order to identify the owner of each item, $(6 \times 1 \text{ pt. each} = 6 \text{ pts.})$
	1. (à toi) C'est cahier?
	2. (à Justin) C'estlivre d'histoire?
	3. (à Franck et Corinne) C'est calculatrice?
	4. (à moi) Ah! C'est montre.
	5. (à nous) C'est corbeille à papier?
	6. (à ton frère et toi) Ce sont crayons?
11	On va où? Say where various people are going by completing each sentence with the correct form of à. (3 × 1 pt. each = 3 pts.)
	1. Maman ya bureau le matin.
	2. Le dimanche, tu vaséglise?
	3. Sandra va nager piscine.
	Au café Say what the friends are having at a café. Use the appropriate form of prendre or boirc. (6 × 1 pt. each = 6 pts.) —Qu'est-ce que tu vas (1)?
	Moi, j'ai faim. Je (2) une pizza.
	—Et comme boisson?
	—Je (3) toujours de l'eau minérale. Et vous deux? —Nous (4) du café.
	—Qu'est-ce que vous (5) à manger?
	Nous (6) des sandwichs au jambon.
	Au café You and a friend are at a café. Write a short conversation to say what each is having. Include six different partitive and indefinite articles. (6 × 1 pt. each = 6 pts.)

Nom	lom	Date
14	14 À vous! You are writing to a French pen pal. In a paragraph, of pet(s) if you have any. Mention how many brothers and sister parents do for work, what courses you are taking, your overal like. (4 pts. for vocabulary + 4 pts. for grammar + 2 pts. for st	s you have, their names and ages, what your l appearance, and what your personality is
9		

Nombre		 _Clase

Fecha.

Gramática A The Verb ir

* Students may also play review games on Level 1, pp. 120-122

Goal: Use the verb ir to say where you and others are going.

- ¿Adónde van? Choose the verb that best completes each sentence below.
 - 1. ¿Adónde (va / vamos) Sandra?
- 2. Nosotras (vamos / van) al gimnasio.
- 3. ¿Cuándo (vas / van) Sergio y tú a la cafetería?
- Tú (va / vas) a la clase de inglés los lunes y miércoles.
- Yo (va / voy) a la biblioteca.

may review any vocabulary from notebooks.

Write three complete sentences using the information in the boxes below.

Cristina Sandra y yo Τú

ir a

la biblioteca el gimnasio la clase de arte

- Answer the following questions in complete sentences.
- 1. ¿Adónde vas los lunes a las 8:30 de la mañana?
- 2. ¿Adónde vas los lunes a las 3:30 de la tarde?

Clase	Fecha	1

Gramática B The Verb ir

Goal: Use the verb ir to say where you and others are going.

Three students are going to Spanish class. Complete the text below with words from the box.

voy

van

vamos

va

Ö

Sarita, Cristina y yo 1. _____ a la clase de español. Lucía también 2. _____ a la clase de español. A mí me gusta, pero es un poco dificil. Ustedes 3. _____a la clase de español los lunes y miércoles. 4. Yo ______ a la clase de español los martes y jueves.

- Write complete sentences about the following students.
- Ana y Sandra / ir / a la cafetería.
- ¿Cuándo ir / Claudia y yo / al gimnasio?
- (Yo) / ir / a la clase de música.
- 4. Ustedes / ir / a España / mañana por la noche.
- Complete the dialogue by answering Nora's questions

Tú:

¿Vas a la clase de inglés en la mañana o en la tarde?

and filler of the profession

Nora:

¿Cuándo vas a la cafetería?

Tú:

Nora:

¿Adónde vas después de comer?

Tú:

Clase	Fecha	
_ Olubo	 1 COM	

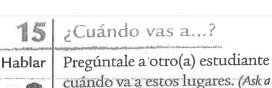
Gramática C

Level 1, pp. 120-122

Goal: Use the verb ir to say where you and others are going.

- 1 Complete the sentences with the correct form of ir.
- 1. Todos los días, yo _____ a la escuela.
- 2. ¿Adónde _____ Sergio y yo cuando estudiamos?
- 3. Yo _____ a la escuela cerca de mi casa.
- 4. Ustedes _____ a Colombia el miércoles.
- 5. ¿Adónde _____ tú a las ocho de la mañana?
- 2 These students are at school. Put the sentence in the correct order using the correct form of the verb ir.
 - 1. Sandra y Pablo / gimnasio (ir)
- 2. yo / todos los días / a la escuela (ir)
- 3. Sandra, Sarita y yo / ¿Adónde / en la tarde? (ir)
- 4. todas las tardes / tú / a la biblioteca (ir)
- Write an e-mail to one of your friends at school about plans you have with another friend. Be sure to explain where you are going.

	9				
		•			
_					
-					
				λ'	
	11.		4		
					- 5
100					
		32		*	



¿Cuándo vas a la oficina?

Voy a la oficina cuando tengo problemas.



partner when he or she goes to these places.) modelo: la oficina Estudiante (A)

1. el gimnasio

4. la biblioteca

2. la oficina 3. la escuela

6. la clase de...

5. la cafetería

Estudiante (B) tengo (que) necesito hay 5 3

Expansión Tell the class when your partner goes to the places in the activity.

¿Y tú? 16

Hablar Escribir Contesta las preguntas. (Answer the questions.) Add detail.

1. ¿A qué hora vas a la escuela?

2. ¿Cuándo van tú y tus amigos(as) a la cafetería?

3. ¿Adónde vas después de la clase de español?

4. ¿Vas mucho a la oficina del (de la) director(a)?

5. ¿Adónde vas cuando tienes que estudiar?

6. ¿Qué hay dentro de tu mochila?

/eer

Comparación cultural

El autorretrato

What does a self-portrait reveal about an artist? Mexican artist Frida Kahlo painted many self-portraits, in the including Autorretrato con collar. She was influenced by the indigenous cultures of Mexico in both her style of painting and style of clothing. She often wore traditional native clothing, as depicted in the photograph. How do you think she depicted herself in her self-portraits?

Compara con tu mundo What would you include in a portrait of yourself and why?



Una fotografía de Frida Kahlo (1941), Nickolas Muray

Get Help Online my.hrw.com

Cuaderno pp. 79-81 Cuaderno para hispanohablantes pp. 80-83 Más práctica

PARA PIENSA

Frase completa! "

Did you get it? Tell where the following people are going.

1. Teresa / la cafetería

3. nosotros / el gimnasio

2. los estudiantes / la oficina del director 4. yo / la clase de matemáticas

Unidad 2 México ciento veintidós

RMMS Physical Education Fitness Log

Below are the recommendations given by the US Department of Agriculture (USDA) for "ChooseMyPlate" on fitness for adolescents each day.

Children and adolescents (6-17 years)

Children and adolescents should do 60 minutes or more of physical activity each day. Most of the 60 minutes should be either moderate- or vigorous intensity aerobic physical activity, and should include vigorous-intensity physical activity at least 3 days a week. As part of their 60 or more minutes of daily physical activity, children and adolescents should include muscle-strengthening activities, like climbing, at least 3 days a week and bone-strengthening activities, like jumping, at least 3 days a week. Children and adolescents are often active in short bursts of time rather than for sustained periods of time, and these short bursts can add up to meet physical activity needs. Physical activities for children and adolescents should be developmentally appropriate, fun, and offer variety.

Source: https://www.choosemyplate.gov/resources/physical-activity-amount

Cardiovascular Examples	Muscular Strength/Endurance Examples
go for a walk	• push ups
go for a run	sit ups/crunches
 jump on your trampoline 	• squats
 ride your bike 	wall sits
• jump rope	wall jumps
walk up and down your steps	• lounges
	wall push ups

GOOGLE CLASSROOM CODES									
	<u>Underwood</u>	Spencer	Anderson	Glass					
1A	gi4xoat	iegtggc	wefmrny	ozrnqo2					
1B	hu3e7rx	64sos5e	wzprz7v	vhk75ra					
2A	cpoydgu	4scrykh	hgqhg4z	pfozv27					
2B	2vvhdgn	wxxj6sd	2isr72a	xremmdm					
3A	o6uwkpf	6kvjke3	efqqmit	co6cjp4					
3B	3wrxzqn	ewumkjc	p5u7mwa	yxcxkxu					

Mrs. Underwood - sunderwood@bcps.k12.va.us

Mrs. Glass - Iglass@bcps.k12.va.us

Mr. Spencer

- kspencer@bcps.k12.va.us

Mr. Anderson - swanderson@bcps.k12.va.us

RMMS Physical Education -- Fitness Log

Log your activity each day in the "activity" column. Mark your activity if it was a cardiovascular or musuclar strength/endurance activity. If the activity was cardiovascular list time spent participating in the activity. Examples listed below.

Activity	Time Spent	Cardiovascular	Muscular Endurance
			iviusculai Eliuurance
Riding My Bike	45 mins	X	
3 sets of 10 push ups			X
	-		
		9	,
			·-
			-
		S sets of 10 push ups	B sets of 10 push ups

8th Grade Exploratory Classes Packet

Please locate your current exploratory class and find your assignment for the next two weeks.

Teacher: **Tracey Evans**

8th Grade Introduction to Virginia Teachers for Tomorrow Class:

Imagine that you have walked into your classroom on the first day of school. Four of your 30 students have Assignment: Individualized Education Plans (IEPs), indicating that they have special needs. The little girl in the front row was in an automobile accident, is paralyzed from the waist down, and uses a wheelchair. The girl with the pigtails has been diagnosed with severe emotional disturbance. The little boy in the corner is dyslexic and also has ADHD. And the child with the Mickey Mouse T-shirt wears a hearing aid. The teacher must figure out a way for all of these children to have a fair chance to master the same challenging material as everyone else. Write one paragraph (5-7 sentences) that explains how you will teach these students with these various needs.

Teacher: Tracey Evans

8th Grade Computer Solutions Class:

If students have computer access students will continue to use www.edutpying.com to practice keyboarding Assignment: skills using correct posture & technique. EduTyping has to be accessed through the student's google classroom account. If students do not have computer access students will need to use the keyboarding cheat sheet to study middle, top, and bottom row keys.



Mr.Lawson Teacher: Band 8 Class:

Assignment:

- Practice a variety of scales we have learned
- Practice infinity march.

Teacher: Mrs. Stevens Class: 8th Grade Classes

Assignment:

8th Grade 2nd Semester Class- You finished your written assignments if they were turned in and not marked as missing or incomplete. Some were beginning woodworking and some were beginning small engines. Both of these were the hands-on portion of the assignment and will not be something that you can work on at home.

Your only assignment will be a continuation of the SAE (Supervised Agricultural Experience) packet that we already turned in. During your time out of school, please record any time that you spend on an agriculture-related activity. Some of you can even mark time that you did working with plants or animals in class. Below is a shortened copy of how to keep your hours and an example of what kinds of activities that could be recorded. You can just record your hours on any piece of paper to be turned in at a later date. Your target goal is 5 hours total. This should be so easy to accomplish! If you have access to a computer, you can look up more examples, but examples are on this page as well.

8th Grade Q4 Class-You all received your pink packets and a copy of the SAE hours sheet in class on Friday. Please work on completing the SAE packet and completing the hours sheet with 5 total hours. You do not have to print the hours sheet from Google Classroom.

DATE	Description of Activity	Time Worked	Paid? (x if yes)	Comments			
3-13	Walked dog	20 min	no	(10 min a.m. & p.m.)			
3-14	Worked in flower bed	45 min	no	Grandma's			
3-14	Started seeds for herbs	20 min	no	Basil, oregano, chives			
3-15	Cleaned guinea pig cage	10 min	no				
3-15	Worked on small engine	30 min	no				
3-16	Worked on wildlife feeders	30 min		Birds, deer			
3-17	Career-conservation officer	30 min	no	researched			

Teacher:

Ms. Buchanan

Class:

Art 8

Assignment:

Things you can do while you are home:

 Graffiti Names or Tags- Do a skeleton of your name, as we did in class, with pencil on copy paper, notebook paper, or sketch paper. Bubble or block around it. Get creative with the flow of your name and add background like brick or paint splotches. Fill in with color, marker, or colored pencil, if you have these available. Add a drop shadow.





Teacher:

Mrs. Durham Musical Drama 8

Class: Assignment:

- 1. Define the following:
- 2. Drama
- 3. Musical
- 4. Script
- 5. Costumes
- 6. Staging
- 7. Actor
- 8. Character
- 9. Scene
- 10. Expression

11,	Voice
12,	Plot
13.	Exposition
14.	Transition
15.	Climax
16.	Resolution
17.	Finale
Teacher:	Mrs. Durham
Class:	Chorus 8
Assignm	ent:
•	Practice All-County Music and Spring Songs
•	March 26 Concert - Canceled
•	Spring Concert - May 7, 2020 - still scheduled
•	Concert will include All-County selections and spring songs
•	Practice singing all selections. Document your daily practic
•	Requires parent signature when you turn in. Stay healthy!

Class:

ırham ty Music and Spring Songs - Canceled May 7, 2020 - still scheduled de All-County selections and spring songs Ill selections. Document your daily practice times.

Mr. Burton Teacher: Tech Ed 8 Complete the attached worksheet. Assignment: Career Interest Worksheet Tech Ed Mr. Burton

٧	ame:			
	V.10/V.11/2.11/2.11/2.11			

MYNEXTMOVE.ORG WORKSHEET

Visit mynextmove.org. On the right of the screen, click "START" under "Tell us what you like to do."

Read the O*NET Interest profiler directions. Click "NEXT" as you finish reading the directions.

Mark you interest levels on each of the 60 items.

Record your scores here: R:__l:__A:__S:__E:__C:__

List your top TWO interests. (HINT: Your top two are going to be your two highest numbers.)

0 2,

Click "NEXT" until you get to the "Explore the Job Zones" page. Click each of the 5 links to check out each level of job preparation.

Select the Job Zone that you think is right for you. Hit "NEXT" twice. You should now see a list of careers that fit your interests and preparation level.

Choose 3 careers from your list and fill in the rest of the worksheet with the information about those careers.

Once you finish with this, you may search other careers on the website.

Career #1 Name:					
Education Level Needed for this Job:	Salary \$\$:				
Personality Traits Needed:		_			
Knowledge Needed (areas to study)					
Career #2 Name:					
Education Level Needed for this Job:					
Personality Traits Needed:		_			
Knowledge Needed (areas to study!):					
Career #3 Name:					
Education Level Needed for this Job:					
Personality Traits Needed:					
Knowledge Needed (areas to study!):					

World Cultures 8

Los Números 0-100+

Unscramble each of the following Spanish numbers and write the number beside it.

COTCEAR	
DIVNETIÓS	
MICE	
VITNEIVEUNE	
NECTOI	
CONCI	
CEHCOIDIO	
NEITIHOCVO	
ETICOEIISE	
ZEID	
CODE	
VIETISNÉSI	
CINTUENCA	
SECIDIÉSI	
ARMETTI	
TSRE	
MOU	
MEITEV	
TICCOINEVIN	
D50	
MENTOVA	
VUENE	
TOANIEHO	
ОСОН	
NOEC	
NEITIISETEV	
CENUQI	
SSEI	
AETENSS	
VOIENTNIU	
NAESETT	
TEISE	
CEETR	
VEARUOIITTNC	
CEANUTAR	
URTOCA	
CEVIUMEDIE	
NITIRVEIÉS	

World Cultures 8

Nombre _____

Los Números 0-100+

Find the Spanish word for each of the numbers below.

\bigvee	\mathbf{E}	I	N	T	I	S	I	E	T	\mathbf{E}	M	I	X	D	G	0	0	X	0	
D	I	С	Z	S	U	В	A	\bigvee	S	E	R	T	I	В	C	N	Н	I	T	
T	\bigvee	E	R	N	I	T	S	0	E	E	D	E	Y	N	0	0	С	A	N	
\mathbf{E}	I	J	0	0	N	E	С	R	С	I	C	\mathbb{W}	I	F	A	∇	0	U	E	
D	T	D	С	E	Τ	U	S	T	\bigvee	I	N	С	S	R	P	E	I	D	I	
0	Z	N	S	N	A	A	Н	A	N	\mathbf{E}	I	\mathbf{T}	В	Z	J	N	Τ	I	C	
T	I	E	I	T	В	Н	С	U	S	Τ	I	\bigvee	I	S	K	T	N	E	\bigvee	
C	S	E	R	\mathbf{E}	\bigvee	U	E	C	N	I	A	N	I	N	J	A	I	С	E	
0	0	0	A	J	\bigvee	\bigvee	G	I	\circ	I	É	É	T	J	U	M	\mathbf{E}	I	I	
H	0	N	С	\mathbf{E}	\mathbf{E}	T	E	T	L	C	S	S	C	I	С	E	\bigvee	S	N	
C	P	D	S	Y	G	\bigvee	G	N	D	I	Н	I	I	E	U	K	\bigvee	I	T	
0	S	\mathbf{E}	\mathbf{T}	\mathbf{E}	N	Τ	A	I	С	0	N	E	R	T	Y	N	F	E	I	
S	É	R	T	I	Τ	N	I	\mathbf{E}	\bigvee	C	C	\circ	N	M	N	A	0	T	D	
A	E	С	N	I	U	Q	I	\bigvee	U	R	G	\mathbf{E}	\mathbf{E}	Τ	Y	I	\bigvee	E	Ó	
T	S	Q	С	N	P	D	I	E	С	I	0	C	Н	\circ	A	\mathbf{T}	E	С	S	
N	Q	J	I	\bigvee	F	M	N	A	T	N	E	R	A	U	С	R	E	\bigvee	Z	
I	S	I	E	Τ	\mathbf{E}	\mathbf{T}	F	X	D	C	В	Z	I	N	В	E	С	M	N	
\mathbf{E}	Y	K	N	E	A	С	T	Q	U	K	K	C	S	0	D	C	J	С	I	
R	Q	D	A	Н	A	P	D	N	M	\bigvee	Χ	G	P	Χ	M	E	D	I	\bigvee	
T	P	Н	I	J	M	\mathbb{M}	Q	K	A	Н	G	L	F	Z	\circ	K	Χ	J	J	
	_			4	0		4	_		_				_						

0	5	10	15	20	25	30	80
1	6	11	16	21	26	40	90
2	7	12	17	22	27	50	100
3	8	13	18	23	28	60	100+
4	9	14	19	24	29	70	