SLPS Continuous Learning
Grade 6 Math
May 11 – May 21

Students are encouraged to maintain contact with their home school and classroom teacher(s). If you have not already done so, please visit your child's school website to access individual teacher web pages for specific learning/assignment information. If you cannot reach your teacher and have elected to use these resources, please be mindful that some learning activities may require students to reply online, while others may require students to respond using paper and pencil. In the event online access is not available, please record responses on paper. Completed work should be dropped off at your child's school. Please contact your child's school for the dates and times to drop off your child's work.

If you need additional resources to support virtual learning, please visit: https://www.slps.org/extendedresources

Grade 6 Math Learning Plan		
Date	**Topic/Standard**	**Instructional Video and Activity**
May 11, 2020	Percents I can solve percent problems.	Watch the following video https://youtu.be/-gB1y-PMWfs Students solve questions and answer the puzzle • Grade 6 Math Puzzle 1
May 12, 2020	Solving Percent Problems I can solve percent problems.	Watch the following video https://youtu.be/-lUEWEEpmIo Students complete the practice • Grade 6 Math Puzzle 2
May 13, 2020	Converting Measures I can convert measurement units within and between two systems of measurement	Watch the following video https://youtu.be/jFSenp9ueaI Students solve questions and answer the puzzle • Grade 6 Math Puzzle 3
May 14, 2020	Integers I can use positive and negative numbers to represent quantities	Watch the following video https://youtu.be/HlaI9ME2Aig Students solve questions and answer the puzzle • Grade 6 Math Puzzle 4
May 15, 2020	Comparing and Ordering Integers I can locate a rational number as a point on the number line	Watch the following video https://youtu.be/VW6UrPKPInA https://youtu.be/i1i2_9wg6N8 Students solve questions and answer the puzzle • Grade 6 Math Puzzle 5

Grade 6 Math Learning Plan		
Date	**Topic/Standard**	**Instructional Video and Activity**
May 18, 2020	Fractions and Decimals on a number line I can locate a rational number as a point on the number line	Watch the following video https://youtu.be/uC09taczvOo Students solve questions and answer the puzzle • Grade 6 Math Puzzle 1
May 19, 2020	Absolute Value I can understand that the absolute value of a rational number is its distance from 0 on the number line.	Watch the following video https://youtu.be/r6hS_8nm1jM Students complete the practice • Grade 6 Math Puzzle 2
May 20, 2020	The Coordinate Plane I can locate a rational number as a point on the number line	Watch the following video https://youtu.be/VhNkWdLGpmA https://youtu.be/5ctsUsvIp8w Students solve questions and answer the puzzle • Grade 6 Math Puzzle 3
May 21, 2020	Final Assessment I will be able to complete the assessment	Student should complete the assessment Assessment

Name _____ Date _____

5.5 Puzzle Time

What Did The Alien From Outer Space Say To The Green Book?

Write the letter of each answer in the box containing the exercise number.

Write the percent as a fraction or mixed number in simplest form.

1. 35%

2. 30%

3. 55%

4. 84%

5. 59%

6. 43.9%

7. 144%

8. 2.5%

9. 334%

10. 132.6%

11. 0.8%

Write the fraction as a percent.

12. $\frac{1}{5}$

13. $\frac{2}{5}$

14. $\frac{11}{25}$

15. $\frac{3}{25}$

16. $\frac{29}{50}$

17. $2\frac{16}{25}$

18. $3\frac{1}{20}$

19. $1\frac{7}{10}$

Answers for Exercises 1–11

E. $1\frac{163}{500}$

R. $1\frac{11}{25}$

D. $\frac{439}{1000}$

A. $\frac{11}{20}$

O. $\frac{7}{20}$

L. $\frac{1}{40}$

T. $\frac{59}{100}$

E. $\frac{1}{125}$

R. $3\frac{17}{50}$

U. $\frac{3}{10}$

S. $\frac{21}{25}$

Answers for Exercises 12–19

R. 58%

O. 40%

E. 305%

A. 264%

M. 20%

Y. 170%

D. 12%

E. 44%

8	14	3	6		12	18		5	1		19	13	2	9		16	10	17	15	11	7	4

Name _____ Date _____

5.6 Puzzle Time

Why Was The Math Textbook Feeling Sad?

Write the letter of each answer in the box containing the exercise number.

Find the percent of the number.

1. 10% of 50

2. 20% of 30

3. 25% of 40

4. 4% of 50

5. 40% of 60

6. 50% of 38

7. 60% of 70

8. 75% of 20

9. 15% of 10

10. 16% of 80

11. 17% of 25

12. 42% of 20

Find the whole.

13. 30% of what number is 9?

14. 50% of what number is 11?

15. 25% of what number is 20?

16. 60% of what number is 21?

17. 75% of what number is 12?

18. 10% of what number is 6?

19. 120% of what number is 48?

20. 150% of what number is 75?

21. The length of a rectangle is 16 inches. If the width is 50% of its length, what is the width of the rectangle?

22. In your math class, 60% of the students are girls. If there are 15 girls in the class, how many students are in your math class?

Answers for Exercises 1–12

D. $8\frac{2}{5}$

F. $1\frac{1}{2}$

O. 6

S. 19

L. 42

M. $4\frac{1}{4}$

H. 24

L. 10

A. $12\frac{4}{5}$

E. 5

G. 2

P. 15

Answers for Exercises 13–22

T. 60

S. 35

P. 22

B. 50

I. 8

R. 30

E. 40

E. 25

L. 80

E. 16

8	13	2	20	7	22	11	16		9	21	3	15	1	12		18	5	17		14	10	4	19	6

Name _____ Date _____

5.7 Puzzle Time

How Do You Fix A Broken Pizza?

Write the letter of each answer in the box containing the exercise number.

Complete the statement. Round to the nearest hundredth, if necessary.

1. 72 in. = ? cm

2. 3 qt ≈ ? L

3. 15 lb ≈ ? kg

4. 120 mi ≈ ? km

5. 7 L ≈ ? qt

6. 75 kg ≈ ? lb

7. 5 km ≈ ? mi

8. 54 cm ≈ ? in.

9. $\frac{24 \text{ in.}}{\text{h}} = \frac{? \text{ cm}}{\text{h}}$

10. $\frac{32 \text{ lb}}{\text{day}} \approx \frac{? \text{ kg}}{\text{day}}$

11. $\frac{52 \text{ L}}{\text{year}} \approx \frac{? \text{ qt}}{\text{year}}$

12. $\frac{7 \text{ km}}{\text{min}} \approx \frac{? \text{ mi}}{\text{min}}$

13. Felicia is 63 inches tall. What is her height in centimeters?

14. Your backpack weighs 6 kilograms. What is its weight in pounds?

15. If the speed limit is 65 miles per hour, how many kilometers per hour can a person drive without speeding?

Answers

P. 160.02

I. 182.88

W. 21.06

T. 13.2

H. 193.2

A. 2.85

T. 14.4

O. 3.1

A. 104.65

S. 165

T. 55.12

O. 7.42

E. 6.75

M. 4.34

T. 60.96

8	1	11	4		14	5	12	2	9	7		13	15	6	10	3

Name _____ Date _____

6.1 Puzzle Time

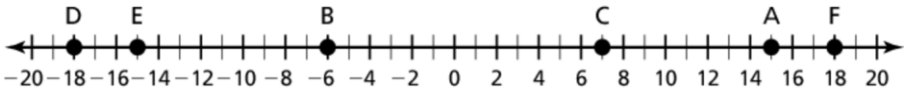
What Do You Get When You Cross An Electrical Eel With A Sponge?

Write the letter of each answer in the box containing the exercise number.

Write a positive or negative integer that represents the situation.

1. Lisa puts 14 dollars into her piggy bank.
2. You are playing a game and must go back 4 spaces.
3. Claire loses 5 points on a spelling test.
4. The football team scores 21 points in the game.
5. Your dad gains 5 pounds.
6. Addison gets 4 bonus points on the science test.
7. The temperature drops 14 degrees.
8. You take 21 dollars out of your bank account.

Identify the location of the point on the number line.



9. A
10. B
11. C
12. D
13. E
14. F

Answers

O. 21
A. −18
R. −4
K. −14
B. −6
S. 7
B. 18
H. −5
O. 4
S. 14
C. −15
R. −21
S. 5
E. 15

11	3	6	13	7		12	10	1	4	8	14	9	2	5

Name _____ Date _____

6.2 Puzzle Time

Did You Hear About The...

A	B	C	D	E	F
G	H	I	J	K	L
M					

Complete each exercise. Find the answer in the answer column. Write the word under the answer in the box containing the exercise letter.

Which number is greater?

A. $4, 1$

B. $7, -7$

C. $-2, 5$

D. $-8, -9$

E. $-4, -3$

F. $-6, -11$

Order the integers from least to greatest.

G. $2, -6, 0, -3$

H. $-4, 6, -5, 1$

I. $7, -7, 17, -17$

J. $-2, -5, -1, -4$

K. $3, -3, -13, -33$

L. $0, -8, 60, -68$

M. After the first round on a television game show, the three contestants have $-\$300$, $\$600$, and $-\$400$ respectively. Which of the three dollar amounts represents the lowest score in the game?

–5, –4, 1, 6 GOT	**0, –8, 60, –68** RAN
–7, –17, 7, 17 LIFT	**–33, –13, –3, 3** AT
–3, 3, –13, –33 DOWN	**–400** GYM
–1, –2, –4, –5 WHEN	**5** WERE
–6 BECAUSE	**–3, –6, 0, 2** EARLY
–300 EXERCISE	**–3** LATE
4 DUMBBELLS	**–6, –3, 0, 2** THEY
–5, –4, –2, –1 UP	**7** THAT
–8 ALWAYS	**–17, –7, 7, 17** HELD
–68, –8, 0, 60 THE	**–11** WEIGHTS

Name _____ Date _____

6.3 Puzzle Time

What Did One Plate Say To The Other Plate?

Write the letter of each answer in the box containing the exercise number.

Which number is greater?

1. $-\frac{1}{2}, \frac{3}{5}$

2. $-\frac{2}{3}, -\frac{5}{6}$

3. $-5\frac{1}{4}, -5\frac{1}{2}$

4. $-2\frac{7}{8}, -2\frac{3}{4}$

5. $4.8, -4.2$

6. $-21.5, -21.05$

7. $-3.07, -3.14$

Order the numbers from least to greatest.

8. $3.4, -4, -2.7, 0, -2.85$

9. $3, -2\frac{1}{4}, -2\frac{1}{6}, 3\frac{1}{5}, -2\frac{3}{4}$

10. Use a number line to determine which number is between -4.4 and -5.8.

A. -5.68 **B.** -4.14 **C.** -5.92

11. Use a number line to determine which number is between -2.61 and -5.49.

A. -2.49 **B.** -5.51 **C.** -3.11

Answers

H. $-2\frac{3}{4}, -2\frac{1}{4}, -2\frac{1}{6}, 3, 3\frac{1}{5}$

O. $-\frac{2}{3}$

M. -21.05

N. $\frac{3}{5}$

E. $-2\frac{3}{4}$

N. -3.07

U. A

S. 4.8

L. $-4, -2.85, -2.7, 0, 3.4$

C. $-5\frac{1}{4}$

I. C

8	10	1	3	9		11	5		2	7		6	4

Name _____ Date _____

6.4 Puzzle Time

Did You Hear About The...

A	B	C	D	E	F
G	H	I	J	K	L
M	N	O	P		

Complete each exercise. Find the answer in the answer column. Write the word under the answer in the box containing the exercise letter.

Find the absolute value.

A. $|-4|$ **B.** $|6|$

C. $|-27|$ **D.** $|18|$

E. $\left|\frac{1}{8}\right|$ **F.** $\left|-4\frac{1}{3}\right|$

G. $|-12.72|$ **H.** $|-9.61|$

Tell which temperature is closest to 0°F.

I. Anchorage: $-16°$F or Richmond: $46°$F

J. Minneapolis: $-22°$F or New York: $20°$F

K. Boston: $-2°$F or Washington: $38°$F

L. Detroit: $-19°$F or Chicago: $-8°$F

Order the values from least to greatest.

M. $|-2|, -3, -1, |-4|$

N. $-5, |-7|, -9, |-3|$

O. $-6, 0, |-9|, -9$

P. $|-5|, -5, -3, |-3|$

27 BECAME	6 WHO
$-3, -1, \|-2\|, \|-4\|$ IN	$-8°$F FOUND
$\frac{1}{8}$ BASEBALL	9.61 HE
$-16°$F COULD	$-5, -3, \|-3\|, \|-5\|$ PEN
$-9, -6, 0, \|-9\|$ BULL	18 A
12.72 AND	$20°$F ALWAYS
$-2°$F BE	$-9, -5, \|-3\|, \|-7\|$ THE
4 MATADOR	$4\frac{1}{3}$ PLAYER
$\frac{6}{7}$ CATCHER	$\frac{2}{3}$ UMPIRE

Name _____ Date _____

6.5 Puzzle Time

What Has Stars and Stripes?

Write the letter of each answer in the box containing the exercise number.

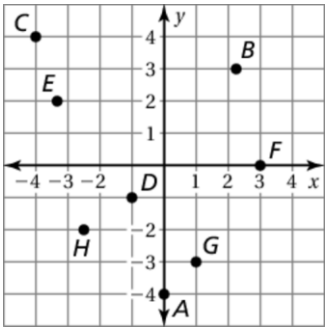
Write an ordered pair corresponding to the point.

1. Point A **2.** Point B

3. Point C **4.** Point D

5. Point E **6.** Point F

7. Point G **8.** Point H



Plot the ordered pair in a coordinate plane. Describe the location of the point.

9. $(6, -2)$ **10.** $\left(2\frac{1}{8}, 6\right)$

11. $(-1, 2)$ **12.** $(-4.8, -6.1)$

Plot the points and find the distance between the points.

13. $(3, -4), (7, -4)$ **14.** $\left(5\frac{1}{2}, 3\right), \left(5\frac{1}{2}, -2\right)$

15. $(2, -2.4), (2, 4.6)$ **16.** $(-1, 4), (-1, 6)$

17. A rectangle is drawn in a coordinate plane with the vertices $A(-3, 4)$, $B(6, 4)$, $C(6, -3)$, and $D(-3, -3)$. Find the area of the rectangle.

Answers for 1–8

O. $(2.25, 3)$ **E.** $\left(-3\frac{1}{3}, 2\right)$

A. $(0, -4)$ **E.** $(-4, 4)$

A. $(3, 0)$

I. $\left(-2\frac{1}{2}, -2\right)$

O. $(-1, -1)$ **U.** $(1, -3)$

Answers for 9–12

A. Quadrant I

T. Quadrant II

R. Quadrant III

A. Quadrant IV

Answers for 13–17

B. 7 **Z.** 63

B. 4 **V.** 5

M. 2

9		16	4	14	8	3		10	13	2	7	11		6		17	5	15	12	1

SLPS Grade 6 Math Final Assessment 2020

Please write each question by writing the letter choice you have selected in the line provided. Completed assessment should be submitted electronically to your teacher in the virtual classroom space or delivered to your school (If you have elected to complete the assessment on paper). Please contact your Math teacher related to the exam contents, due dates and submission.

Before the Final Assessment, please review the Academic Integrity Statement.

Missouri Learning Standards Assessed:

6.NSB.3: Demonstrate fluency with addition, subtraction, multiplication and division of decimals.
6.NSB.4: Find common factors and multiples.
6.NSC.6: Locate a rational number as a point on the number line
6.NSC.8: Extend prior knowledge to generate equivalent representations of rational numbers between fractions, decimals and percentages.
6.EEI.A.2: Create and evaluate expressions involving variables and whole number exponents.
6.RPA.3: Solve problems involving ratios and rates.

Academic Integrity Statement:

By signing or typing my name below, I certify this assessment was completed independently, without the use of outside help (including, but not limited to: web searches, peer assistance, adult help and copying)

_____ _____

Student Name (Type or Sign) **Today's Date (Type or Print)**

_____ _____

Math Teacher Name (Type or Print) **School Name (Type or Print)**

1. Sheba showed Judy the following table of the amounts of money that Sheba earned by walking dogs.

Money earned by walking dogs	
Hours worked	**Amount earned (dollars)**
3	$24
4	$32
5	$40

How should Judy determine how much money Sheba earned each hour?

A. Add the number of hours worked to the amount earned.
B. Divide the amount earned by the number of hours worked.
C. Subtract the number of hours worked from the amount earned.
D. Multiply the amount earned by the number of hours worked.

Answer: _____

2. From the expression below select two statements about the expression that are true.

$$5 - 3n^2 + 10n$$

A. The expression has 5 terms
B. One of the terms is a constant.
C. The coefficient of one of the terms is -3.
D. 10 is the variable in the expression
E. The exponent in the term is 3

Answer: _____

3. An expression is shown

$$\frac{5}{2(2+3)^2}$$

What is the value of the expression?

A. $\frac{1}{4}$
B. 10
C. 4
D. $\frac{1}{10}$

Answer: _____

4. For Halloween Ms. Kinder purchased 98 Kit Kats and 56 Almond Joys. Each student will receive an equal number of Kit Kats and Almond Joys. There will be no Kit Kats and Almond Joys leftover.

   Based on this information, what is the greatest number of students Ms. Kinder can have in her class?

   A. 28 Students
   B. 26 Students
   C. 14 Students
   D. 16 Students

Answer: _____

5. Which property is illustrated by $3(5x + 3) = 15x + 9$?

   A. Distributive Property
   B. Associative property of Addition
   C. Additive Identity
   D. Commutative property of Addition

Answer: _____

6. The change in yards in a football team's position on the field for each of their last four plays is given below.

   -3, 6, -6, 0

   Which lists correctly compares the changes in yards in the football team's position on the field?

   A. $-6 < -3 < 0 < 6$
   B. $-3 < -6 < 0 < 6$
   C. $0 < -6 < -3 < 6$
   D. $0 < -3 < -6 < 6$

Answer: _____

7. The table shows the lowest recorded temperature for each of the four cities.

City	Temperature
Detroit	-19
Miami	58
Fairbanks	-56
Seattle	9

Which of the following shows the numbers from least to greatest?

A. -19, -56, 9, 58
B. -56, -19, 9, 58
C. 9, -19, -56, 58
D. 58, -56, -19, 9

Answer: _____

8. The point (4, -2) is plotted on the coordinate plane.

The point is reflected across the x axis. What are the coordinates of the reflected point?

A. (-4, 2)
B. (4, -2)
C. (-4, -2)
D. (4, 2)

Answer: _____

9. Select the **two** numbers equivalent to 0.042.

A. 0.42%
B. 4.2%
C. 42%
D. $\frac{42}{1000}$
E. $\frac{42}{100}$

Answer: _____

10. An electrician has 42.3 meters of wire to use on a job. On the first day, she uses 14.742 meters of the wire. How many meters of wire does she have remaining after the first day?

A. 27.442
B. 27.642
C. 27.558
D. 27.658

Answer: _____