

**Grade 6 Summer Review Packet
2019 -2020**



WEEK - 4

NAME: _____

DUE: THE FIRST DAY OF SCHOOL

The problems in this packet are designed to help you review topics from previous mathematics courses that are essential to your success in Integrated Math I. **You are expected to bring this completed packet to class on the first day of school.** In addition, this packet will count as part of your first quarter grade. **Upon returning, you will be ASSESSED on the content of this packet.** All contents outlined in the packet are Grade 6 objectives. Neatly **SHOW YOUR WORK** on a separate sheet of paper.

Q1: a. Determine whether each situation should be represented by a positive integer or a negative integer.

- i. A deposit of \$400
- ii. A temperature decrease of 32° F
- iii. A withdrawal of \$65
- iv. 3,000 feet above sea level
- v. A credit of \$55

b. In the boxes, enter an integer that represents each situation.

- i. A deposit of \$400
- ii. A temperature decrease of 32° F
- iii. A withdrawal of \$65
- iv. 3,000 feet above sea level
- v. A credit of \$55

- a. Positive integer
 Negative integer
- b. Positive integer
 Negative integer
- c. Positive integer
 Negative integer
- d. Positive integer
 Negative integer
- e. Positive integer
 Negative integer

Q2: Calculate the quotient. Use paper to show all calculations. Enter your answer in the box below.

$$\frac{6}{7} \div 7\frac{1}{2}$$

Q3: Invert and multiply to evaluate the division expression.

$$\frac{3}{4} \div \frac{1}{3}$$

Choose all correct answers.

A $\frac{3}{12}$

B $\frac{4}{7}$

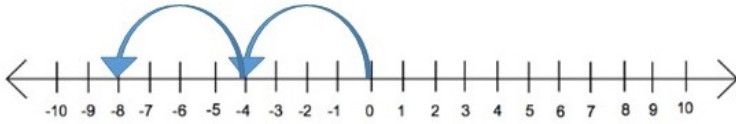
C $\frac{9}{4}$

D $2\frac{1}{4}$

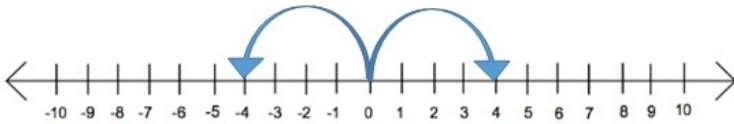
E $\frac{10}{4}$

Q4: Which number line shows how to find 4 and the opposite of 4?

A



B



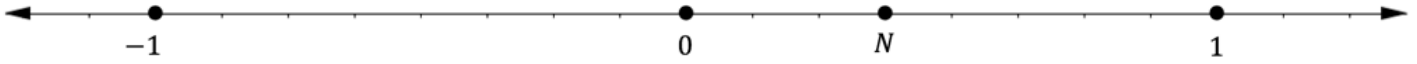
C



D



Q5: The number line shown is divided into segments of equal length. Use the number line diagram to answer the following questions.



- What is the length of each segment on the number line?
- What number does point N represent?
- What is the opposite of point N ?

Q6: Drag each number to its location on the number line.

Drag Drop Values

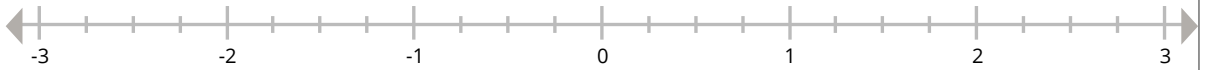
$-\frac{1}{4}$

-0.75

0.5

$1\frac{3}{4}$

-2



Q7: Enter an integer to represent each situation.

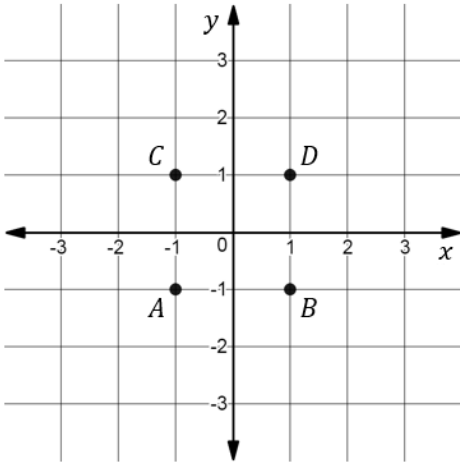
A credit of \$28:

200 feet above sea level:

A debit of \$16:

A temperature of 11 degrees below zero:

Q8: Consider the graph shown.



Part A

In which quadrant does each point lie? Select your answers from the drop-down lists.

Point A is located in Quadrant .

Point B is located in Quadrant .

Point C is located in Quadrant .

Point D is located in Quadrant .

Part B

Select answers from the drop-down lists to correctly complete each sentence.

The point $(4, -2)$ is located in Quadrant .

The location of the point $(-3, 5)$ after it is reflected over the y -axis is in Quadrant .

If both coordinates in an ordered pair are negative, the point lies in Quadrant .

a. I
 II
 III
 IV

b. I
 II
 III
 IV

c. I
 II
 III
 IV

d. I
 II
 III
 IV

e. I
 II
 III
 IV

f. I
 II
 III
 IV

g.

<input type="radio"/>	I
<input type="radio"/>	II
<input type="radio"/>	III
<input type="radio"/>	IV

Q9: Which scenario involves the value of greatest magnitude?

- A** A plant located 24 feet below sea level.
 - B** A deposit of \$22 into a bank account.
 - C** A tree located 20 feet above sea level.
 - D** A withdrawal of \$30 from a bank account.
-

Q10: Olivia has 6 cups of trail mix. She plans to put $\frac{2}{3}$ of a cup in each bowl at a party. How many bowls will Olivia need? Use paper to draw a model to support your answer.

Olivia will need bowls.

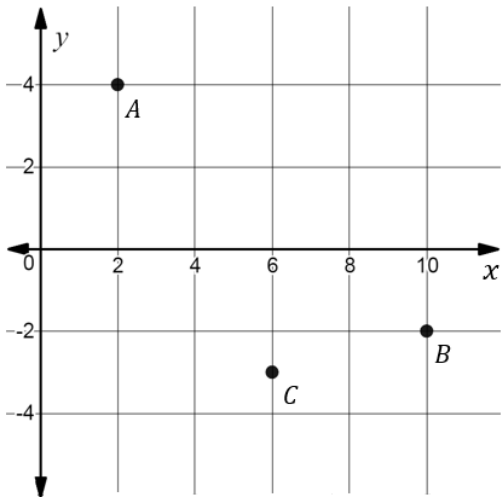
Q11: Which of the following pairs of numbers have a greatest common factor of 6? Select all that apply.

- A** 6 and 3
 - B** 30 and 36
 - C** 24 and 48
 - D** 60 and 88
 - E** 18 and 66
 - F** 72 and 84
-

Q12: Tania has a roll of cloth that is 52.5 feet long. She uses the cloth to make scarves that are each 3.75 feet long. How many scarves can Tania make?

- A** 1 scarf
 - B** 14 scarves
 - C** 28 scarves
 - D** 140 scarves
-

Q13: Consider the graph shown.



Complete the sentences to correctly describe the location of the points on the graph.

Point *A* is located at (,).

Point *B* is located at (,).

Point *C* is located at (,).

Q14: The table shows the final score of four golfers.

Golfer	Final Score
Joe	-2
Allen	-5
Tara	-8
Violet	-4

Whose score was the lowest? Whose was the highest? Select your answers from the drop-down lists.

score was the lowest. score was the highest.

a. Joe's
 Allen's
 Tara's
 Violet's

b. Joe's
 Allen's
 Tara's
 Violet's

Q15: Determine the correct order of the numbers from least to greatest.

DRAG DROP VALUES

$$-3\frac{3}{4}$$

$$-1\frac{2}{3}$$

$$-4$$

$$1.3$$

$$6.75$$

$$3\frac{1}{2}$$

$$-2\frac{7}{8}$$

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Least

Greatest

Q16: For each of the inequality statements, choose the statements that correctly show the position of the numbers in the inequality as if they were graphed on a vertical number line.

a. $-4.5 < 5\frac{1}{2}$

A -4.5 is below $5\frac{1}{2}$

B -4.5 is above $5\frac{1}{2}$

C $5\frac{1}{2}$ is below -4.5

D $5\frac{1}{2}$ is above -4.5

b. $3.75 > -2\frac{1}{4}$

A 3.75 is below $-2\frac{1}{4}$

B 3.75 is above $-2\frac{1}{4}$

C $-2\frac{1}{4}$ is below 3.75

D $-2\frac{1}{4}$ is above 3.75

c. $6.75 > 0.4 > -1.4$

A 6.75 is below 0.4

B 6.75 is above 0.4

C 0.4 is above -1.4

D -1.4 is above 0.4

E 0.4 is below 6.75

d. $-6\frac{5}{7} < 6\frac{5}{7} < 6\frac{6}{7}$

A $-6\frac{5}{7}$ is below $6\frac{5}{7}$

B $-6\frac{5}{7}$ is above $6\frac{5}{7}$

C $6\frac{5}{7}$ is below $6\frac{6}{7}$

D $6\frac{5}{7}$ is above $6\frac{6}{7}$

E $6\frac{5}{7}$ is above $-6\frac{5}{7}$

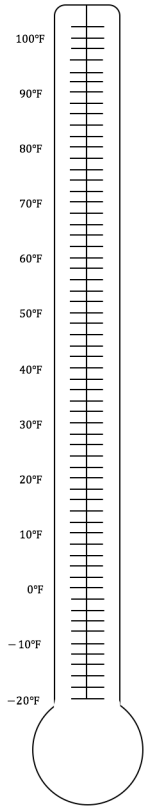
Q17: Torrance is shopping for a school party. His donation to the party is snack bags and juice boxes. Snack bags come in packages of 12, and juice boxes come in a package of 10. What is the fewest number of packages of each product Torrance must purchase so that he has the same number of snack bags and juice boxes? Use paper to show what you know about the least common multiple to support your answer. Enter your answers in the boxes.

Torrance must purchase packages of snack bags and packages of juice boxes to have the same number of each.

**SELECT TOOL**

Select the relevant button to use a function.

Q18: Mark and label the point on the thermometer that corresponds to the temperature given for each part.



- 40°F
- 12 degrees below zero Fahrenheit
- 88°F
- 34°F
- 18 degrees below zero Fahrenheit