

Icahn Charter Schools Weekly Math Learning Plan
Week of March 23, 2020 - March 27, 2020
Grade 6

Everyday you will be assigned 2 lessons to complete for Math. Your teacher will check in with you on how you did and provide feedback on your week.

Minute Math: Practice your math fluency with a sibling, parent, or over facetime with a friend! Complete the Minute Math practice page for the day. Time yourself to see how many problems you can complete in 1 minute. Then finish the rest in pen!

Math Action Plan: Complete the Math Action Plan (MAP) Practice set for the day. Remember all the great mathematician's strategies you have learned already during MAP! Remember to show your plan and all of your work. After feedback from your teacher, correct the ones you got wrong in pen.

Monday: March 23, 2020

[Minute Math: Minute 1](#)

[Math Action Plan: IW23 Day 1](#)

Show your work on paper! [Then submit your answers on this form.](#)

Tuesday: March 24, 2020

[Minute Math: Minute 2](#)

[Math Action Plan: IW23 Day 2](#)

Show your work on paper! [Then submit your answers on this form.](#)

Wednesday: March 25, 2020

[Minute Math: Minute 3](#)

[Math Action Plan: IW24 Day 1 Period 1](#)

Show your work on paper! [Then submit your answers on this form.](#)

Thursday: March 26, 2020

[Minute Math: Minute 4](#)

[Math Action Plan: IW24 Day 1 Period 2](#)

Show your work on paper! [Then submit your answers on this form.](#)

Friday: March 27, 2020

[Minute Math: Minute 5](#)

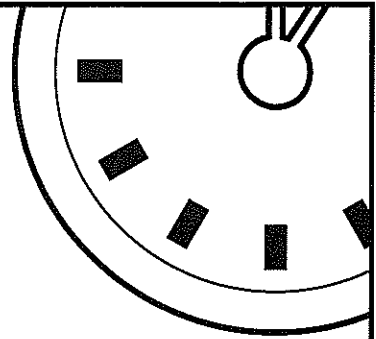
[Math Action Plan: IW24 Day 2 Period 1](#)

Show your work on paper! [Then submit your answers on this form.](#)

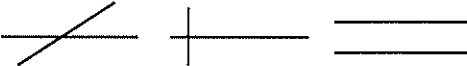
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MINUTE 1

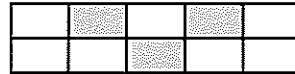


1. Circle the number that has a 4 in the tens place. 324 24 4,321 49

2. Circle the set of lines that are parallel. 

3. Write these decimals in order from least to greatest. 0.403 0.034 0.340

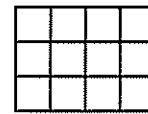
4. Write the fraction that represents the shaded boxes.



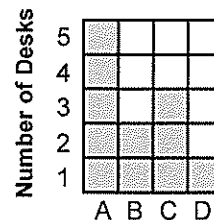
5. $5 + \square = 12$

6. Complete the pattern: 1, 5, 9, 13, _____.

7. What is the area (number of squares) in the rectangle to the right?



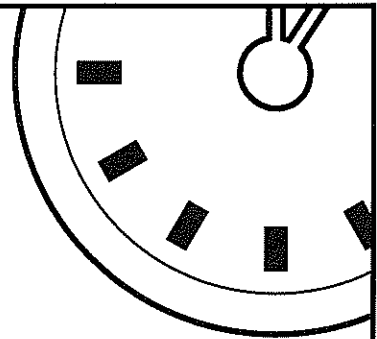
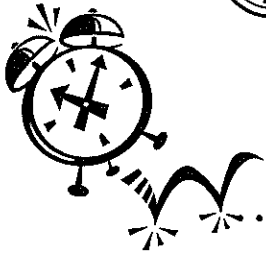
8. According to the chart, how many desks are in column A?



9. $9 \times 4 =$
 $9 \times 7 =$
 $9 \times 9 =$

10. $7 \overline{)28} =$ $7 \overline{)42} =$ $7 \overline{)63} =$

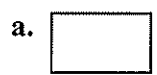
NAME: _____



MINUTE 2

1. If you flip a coin 10 times, how many times will it land on heads?
a. 10 b. 5 c. 2 d. impossible to tell

2. Which shape is a pentagon?

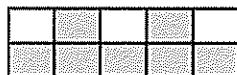


3. Write the fraction for each:

Two-fifths = _____

Three-fourths = _____

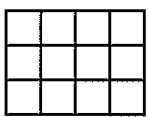
4. Write the fraction that represents the shaded boxes. _____



5. $3 \times 4 + 4 =$

6. Complete the pattern: 4, 8, 12, 16, _____.

7. What is the perimeter (distance around) of the rectangle to the right? _____.

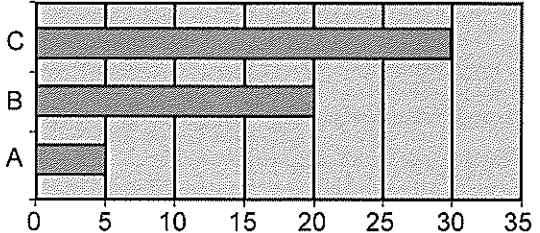


8. According to the graph to the right:

A = _____

B = _____

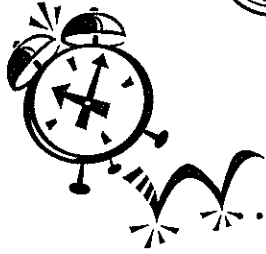
C = _____



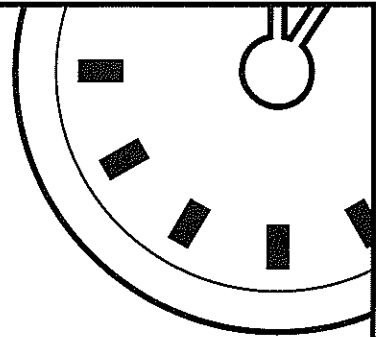
9. $8 \cdot 6 =$ $8 \cdot 4 =$ $8 \cdot 7 =$

10. $\frac{24}{6} =$ $\frac{36}{6} =$ $\frac{18}{6} =$

NAME: _____

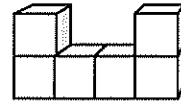


MINUTE 3

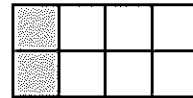


1. If it is 5:32 now, what time will it be 24 minutes from now? _____

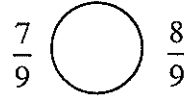
2. How many cubes are in this shape? _____



3. Write two fractions that represent the shaded boxes.



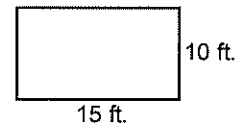
4. Write $>$ or $<$ in the circle to compare the fractions.



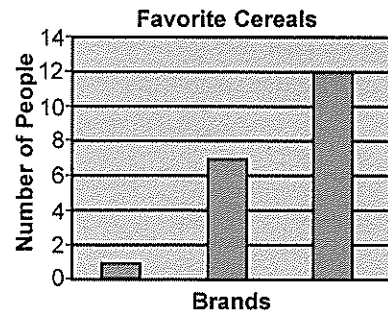
5. Mel makes arm bracelets. She is making one for each arm of her six friends. How many should she make? _____

6. Complete the pattern. 2, 4, 8, _____.

7. Joe wants to build a fence for his dog Charlie. He plans to surround the rectangle to the right with fence. How many feet will he need? _____



8. How many people took part in this survey?



9. $(12)(3) =$
 $(12)(5) =$
 $(12)(6) =$

10. $50 \div 5 =$ $55 \div 5 =$ $45 \div 5 =$

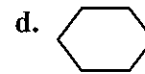
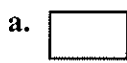
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MINUTE 4

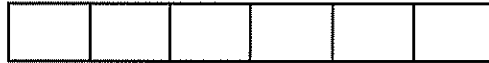
1. Circle the number with a 5 in the tenths place. 36.05 41.5 50.313 15.38

2. Which of these shapes is a trapezoid?



For Problems 3–4, write $>$, $<$, or $=$. Use the bars to help you.

3. $\frac{3}{6}$ $\frac{1}{3}$



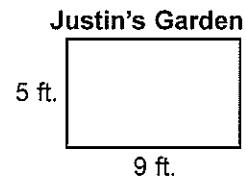
4. $\frac{1}{4}$ $\frac{1}{3}$



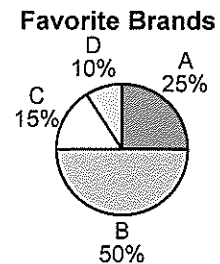
5. $2(4 + 7) =$

6. Complete the pattern. 123, 234, 345, _____.

7. Justin has 30 feet of fence. Would this be enough to surround his garden? Circle: Yes or No



8. According to the chart, Brand B was chosen twice as often as Brand _____.



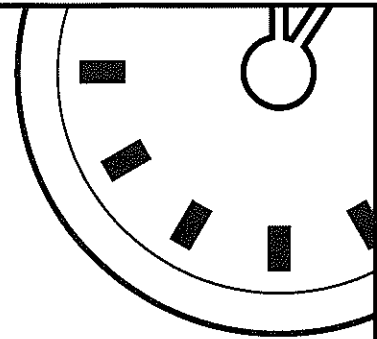
9. $1 + 2 + 3 =$
 $3 + 4 + 5 =$
 $5 + 6 + 7 =$

10. $\begin{array}{r} 38 \\ + 37 \\ \hline \end{array}$ $\begin{array}{r} 43 \\ + 96 \\ \hline \end{array}$ $\begin{array}{r} 26 \\ + 57 \\ \hline \end{array}$

NAME: _____

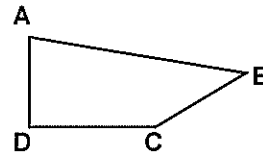


MINUTE 5



1. The height of a room would most likely be 10 _____.
a. feet b. inches c. yards

2. Which letter on the shape is beside a right angle? _____



3. $\frac{1}{2}$ of 20 =

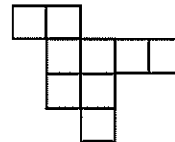
4. Write as a decimal: two and three-tenths = _____.

5. If the pattern continues, how many boxes should be shaded in row D? _____

A	■																		
B	■	■	■																
C	■	■	■	■	■														
D																			

6. $(2 \times 3) + (3 \times 4) =$

7. What is the area of the shape to the right? _____



8. In the chart to the right, the y numbers are _____ times the x numbers.

x	1	2	4
y	3	6	12

9.
$$\begin{array}{r} 49 \\ -28 \\ \hline \end{array}$$

$$\begin{array}{r} 51 \\ -32 \\ \hline \end{array}$$

10.
$$\begin{array}{r} 14 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 23 \\ \times 7 \\ \hline \end{array}$$

Network 6th MAP 2020 IW23 D1

Directions: Read the question. Fill in the bubble next to the corresponding question number on your answer sheet.

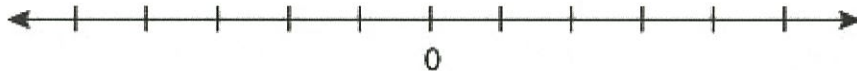
<u>Sample Question</u>	<u>Sample Answer Sheet</u>
Sample Item Not Available	1. <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D 2. <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D 3. <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D 4. <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D 5. <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D

1

A sixth grade class is planning a trip to the science museum. Only $\frac{2}{3}$ of the class will be going on the field trip since the rest of the class forgot their permission slips. The students going on the field trip will be transported by school vans. Each van can hold $\frac{1}{4}$ of the entire class. How many vans will be required?

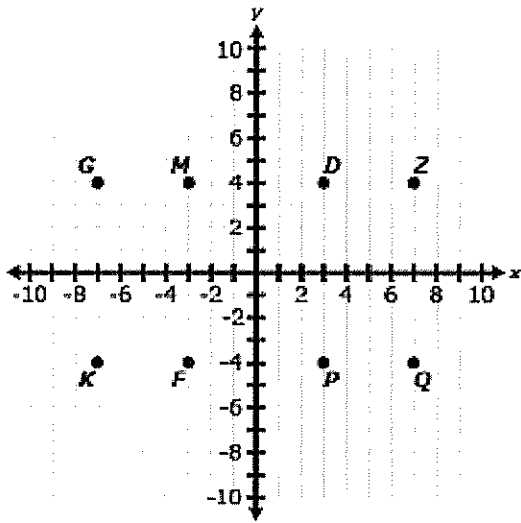
2

One day at a weather station in the Antarctic, the temperature went from a high of 25 °F to a low of -40 °F. Graph the two temperatures on the number line.



Use your number line to determine the change in temperature at the weather station.

3 Mrs. Thomas gave her class the following problem to answer in their math journals:



"Select two points from the coordinate plane and explain what makes them a reflection of each other."

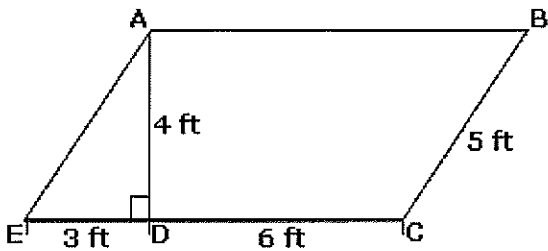
Some of the student responses are shown in the table below:

Student	Response
Anabel	Points M and D are reflections because the x -values are opposites and the y -values are the same.
Brian	Points P and Q are reflections because they are both located in Quadrant IV.
Christopher	Points K and Q are reflections because their y -values are the same and their x -values are located the same distance from 0.
Diana	Points G and F are reflections because they both have negative x -values and their y -values have opposite signs.

Which students answered incorrectly? Why are they wrong?

4

Use this figure to answer the questions that follow. Use this figure to answer the questions that follow.

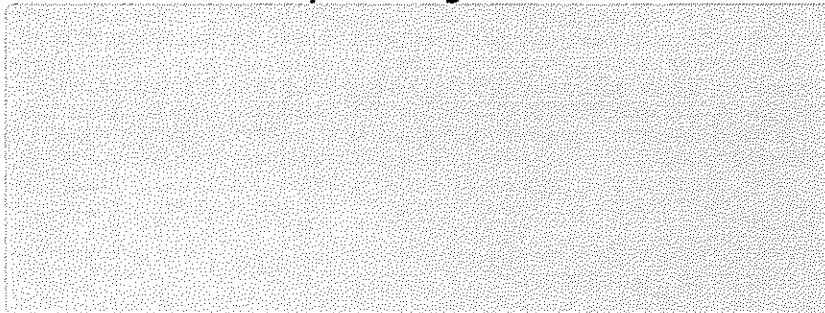


Part A:

What is the area of triangle ADE ?

Part B:

What is the area of parallelogram $ABCE$?

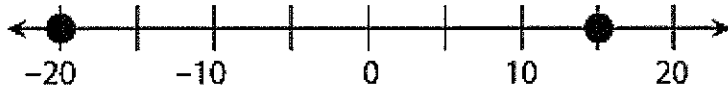


Network 6th MAP 2020 IW23 D2

Directions: Read the question. Fill in the bubble next to the corresponding question number on your answer sheet.

<u>Sample Question</u>	<u>Sample Answer Sheet</u>
Sample Item Not Available	1. <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D 2. <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D 3. <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D 4. <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D 5. <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D

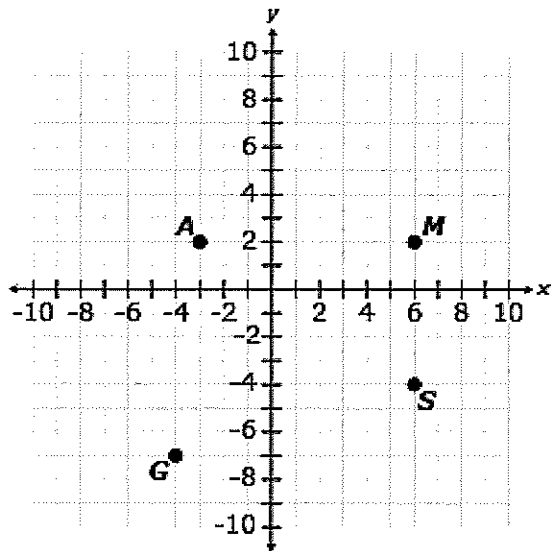
1 Antonia plotted the temperature of two cities as shown on the number line below.



Antonia wrote the inequality $15 > -20$ to compare the two temperatures. She also wrote the inequality $|15| > |-20|$ to compare the absolute values of the temperatures.

Are both of Antonia's inequalities correct? Explain why or why not? Include the correct inequality for any that might be incorrect.

- 2 Natasha and Peter are on a team competing in a scavenger hunt at their school. Using this coordinate plane as a map, they have been instructed to go to the room closest to where they are now, Point M .



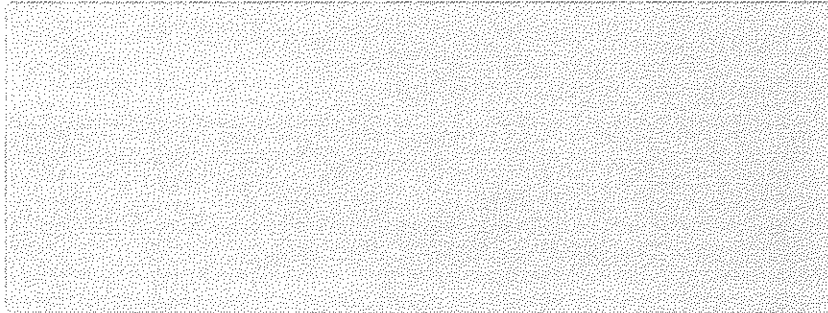
Natasha thinks they should go to the art room (Point A) first. She wrote the equation $6 - 3 = 3$ to decide that the two points were 3 units apart.

Peter thinks they should go to the Spanish room (Point S) first. He wrote the equation $2 + 4 = 6$ to decide that the two points were 6 units apart.

Who is correct? Explain your answer.

- 3** Justin and 4 friends are going to a movie. Each person buys a movie ticket that cost \$1.50 less than the square of \$3.00. Three of the friends bought a bag of popcorn and a small soda that cost \$2.25 more than the square of \$2.00.

Write a numerical expression that can be used to find the total amount that Justin and his friends spent at the movies.



- 4** Jenni is setting up an ice cream stand at her brother's football game. Using the information below, answer the questions that follow:

Each gallon of ice cream can serve 8 or 9 people.
There are between 33–36 people expected at the football game.
Each gallon of ice cream costs \$3.80.

Part A:

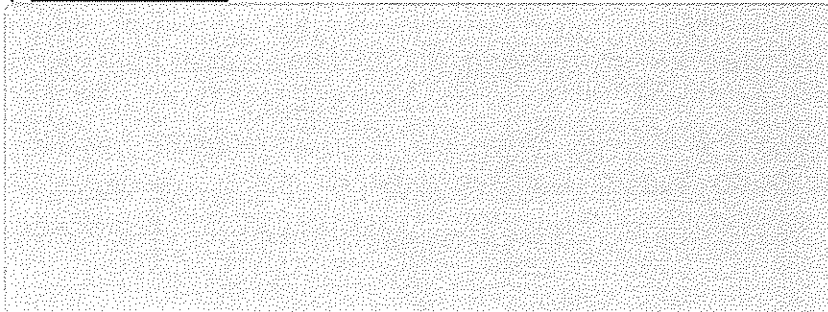
Jenni knows that everyone who comes to the football game will order a serving of ice cream. What is the fewest number of gallons of ice cream Jenni should bring to the game?

_____ gallons

Part B:

If Jenni buys the number of gallons of ice cream you determined in Part A, how much will she spend?

\$ _____



Network 6th MAP 2020 IW24 D1 Period 1

Directions: Read the question. Fill in the bubble next to the corresponding question number on your answer sheet.

<u>Sample Question</u>	<u>Sample Answer Sheet</u>
Sample Item Not Available	<ol style="list-style-type: none">1. <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D2. <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D3. <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D4. <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D5. <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D

1

A	B
2	12
4	24
6	36
8	?

What number completes the table shown above?

A 48

B 44

C 42

D 14

2

Which of the following is true?

A $(2x - 5) + 3 = 6x - 15$

B $x + (3 + m) = (x + 3) + m$

C $x + (3 - 5) = x + 2$

D $3x - (5 + m) = (3x + 5) - m$

3

Which of these expressions is equivalent to $30b^2$?

A $3b + 10b$

B $3b \times 10b$

C $9b + 21b$

D $9b \times 21b$

- 4** Julian and Marco are both trying to break the record number of touchdowns for their school's football team. Julian needs to score more than 6 touchdowns during the last 3 games of the season to break the record. Marco needs to score more than 4 touchdowns during the last 3 games of the season.

Select the pair of inequalities that represent the number of touchdowns both Julian, j , and Marco, m , need to score in order to break the school record.

- A** $j > 6$ and $m > 3$
- B** $j > 3$ and $m > 4$
- C** $j > 6$ and $m > 4$
- D** $j < 6$ and $m < 4$

- 5** Write the verbal expression shown using numbers.

twelve less than eight times y

What is the value of the expression when $y = 24$?

- A** 72
- B** 96
- C** 180
- D** 280

- 6** Emma sold all the parasols in the store for \$84. She brought new parasols from the stockroom and decided to increase the price of a parasol to \$13.

Which of the following equations represents the total amount, t , Emma will have earned after selling the additional, p , parasols?

- A** $t = 84 + 13p$
- B** $t = 84 + (p + 13)$
- C** $t = 84 \times 13p$
- D** $t = 84 + \frac{p}{13}$

- 7** Marianne has decided to track the number of books she reads to her little sister. The relationship between the weeks, w , and the total number of books that have been read, b , is shown in the table below.

Number of Weeks	Number of Books
0	2
1	6
2	10
3	14
4	18

Which of these correctly represents this situation?

- A** The independent variable is the number of books, the dependent variable is the number of weeks, and the equation is $b = 2 + 4w$.
- B** The independent variable is the number of the weeks, the dependent variable is the number of books, and the equation is $b = 2 + 4w$.
- C** The independent variable is the number of books, the dependent variable is the number of weeks, and the equation is $w = 4 + 2b$.
- D** The independent variable is the number of weeks, the dependent variable is the number of books, and the equation is $w = 2 + 4b$

8

Eddie sold boxes of cookie dough for \$12 each for his wrestling fundraiser. The chart shows the number of boxes he sold each week. He needs to calculate the total income for all the boxes, b .

Eddie's Cookie Sales

Week	1	2	3	4
Number of Boxes Sold	10	2	5	6

Which expression represents the total income for the boxes sold?

- A $12/b$
- B $4b$
- C $12b$
- D $4 + b$

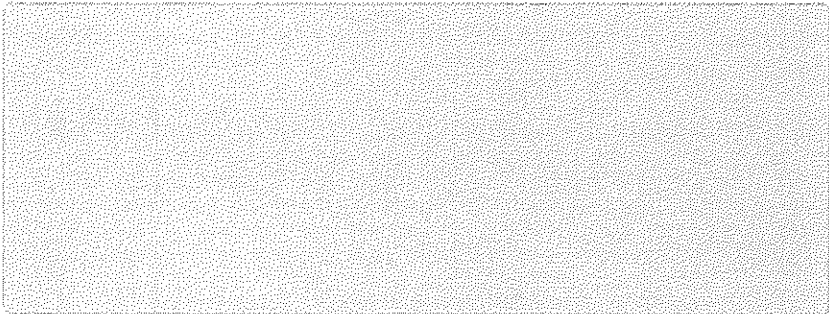
Network 6th MAP 2020 IW24 D1 Period 2

Directions: Read the question. Fill in the bubble next to the corresponding question number on your answer sheet.

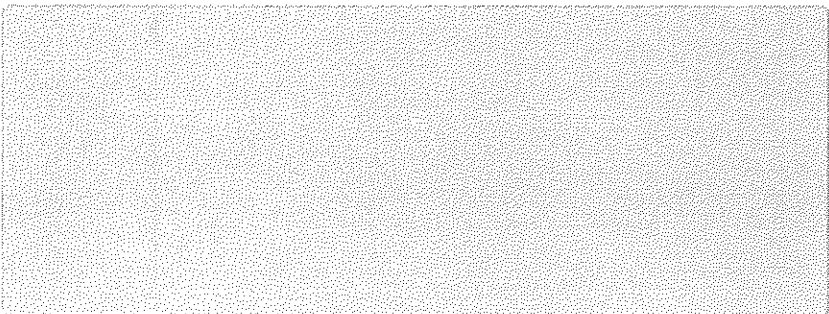
<u>Sample Question</u>	<u>Sample Answer Sheet</u>
Sample Item Not Available	1. <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D 2. <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D 3. <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D 4. <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D 5. <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D

1 At an ice cream social, $\frac{3}{4}$ of a gallon of ice cream is split into bowls, each containing $\frac{1}{16}$ of a gallon of ice cream. How many bowls of ice cream can be made?

If each bowl of ice cream creates a profit of \$0.35 to \$0.40, what could be the profit made from the $\frac{3}{4}$ of a gallon of ice cream?



2 There are 10 boys and 11 girls in Eugene's math class. Write the ratio of girls to boys.



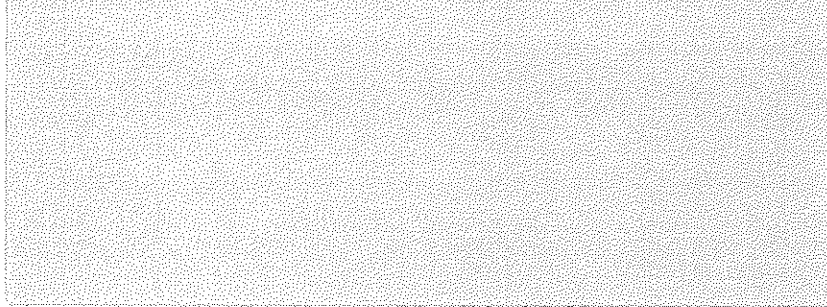
3

A painter wants to make a light green paint by mixing 3 gallons of blue paint with 5 gallons of yellow paint, so that the ratio of blue to yellow paint is 3:5.

On the line below, write a unit rate associated with the ratio of 3:5.

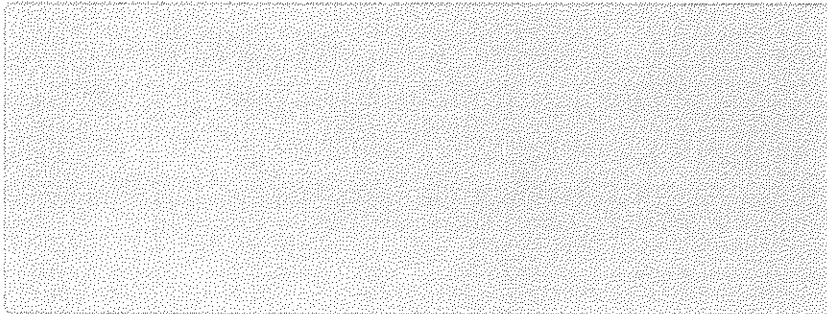
_____ : 1

Explain what this unit rate means in terms of the blue and yellow paint.



4

In a spelling contest, the ratio of girls to boys was 13 to 9. There were 39 girls in the contest. How many boys were in the contest? Use a tape diagram to model the situation, and explain how your model can be used to determine the answer.



Network 6th MAP 2020 IW24 D2 Period 1

Directions: Read the question. Fill in the bubble next to the corresponding question number on your answer sheet.

<u>Sample Question</u>	<u>Sample Answer Sheet</u>
Sample Item Not Available	1. <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D 2. <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D 3. <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D 4. <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D 5. <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D

1 On a number line, the number +3 is located 3 units to the right of 0. Which of the following describes the location of -3?

- A** 3 units to the left of 0
- B** 3 units to the right of +3
- C** 3 units to the left of +3
- D** 3 units to the right of +6

2 Find the prime factorization of 49,875 in exponential form.

- A** $5^3 \times 7 \times 57$
- B** $3 \times 5^3 \times 133$
- C** $3 \times 5^3 \times 7 \times 19$
- D** $5^3 \times 7 \times 19$

3 Dave and Maria are buying some posters that cost p dollars each. Dave is buying 2 posters and Maria is buying 4 posters. The expression $2p + 4p$ shows how much they will spend all together on the posters. Which expression is equivalent to $2p + 4p$?

- A** $6p$
- B** $6p^2$
- C** $8p$
- D** $8p^2$

4 Joel looked at the thermometer outside and saw that it read -6°F . Which is the best description for this temperature?

- A** -6°F is farther away from 0°F than 6°F is.
- B** -6°F is 6° below 0° .
- C** -6°F is colder than -8°F .
- D** -6°F is warmer than 0°F .

5 Evaluate:

$$(7 \times 10^4) + (4 \times 10^3) =$$

- A** 74
- B** 11,000
- C** 74,000
- D** 110,000,000

- 6** The low temperatures on New Year's Day for five major North American cities are shown in the table below.

City	Low Temperature ($^{\circ}\text{C}$)
Chicago	-12.5
New York	-11.7
Boston	-11.3
Toronto	-12.6
Buffalo	-12.3

On the same New Year's Day, the low temperature for Kansas City was warmer than Chicago but colder than New York. Which temperature could be the low temperature of Kansas City on that day?

- A** -12.1°
 - B** -12.7°
 - C** -11.2°
 - D** -11.6°
- 7** What is the distance between $(-7,3)$ and $(-11,3)$ on a coordinate grid?
- A** 0 units
 - B** 4 units
 - C** 8 units
 - D** 18 units

For Question 8:

Book 1

TIPS FOR TAKING THE TEST

Here are some suggestions to help you do your best:

- Read each question carefully and think about the answer before choosing your response.
- You have been provided with mathematics tools (a ruler and a protractor) and a reference sheet to use during the test. It is up to you to decide when each tool and the reference sheet will be helpful. You should use mathematics tools and the reference sheet whenever you think they will help you to answer the question.
- Plan your time.

Grade 6 Mathematics Reference Sheet

CONVERSIONS

1 inch = 2.54 centimeters

1 meter = 39.37 inches

1 mile = 5,280 feet

1 mile = 1,760 yards

1 mile = 1.609 kilometers

1 kilometer = 0.62 mile

1 pound = 16 ounces

1 pound = 0.454 kilogram

1 kilogram = 2.2 pounds

1 ton = 2,000 pounds

1 cup = 8 fluid ounces

1 pint = 2 cups

1 quart = 2 pints

1 gallon = 4 quarts

1 gallon = 3.785 liters

1 liter = 0.264 gallon

1 liter = 1,000 cubic centimeters

FORMULAS

Triangle

$$A = \frac{1}{2}bh$$

Right Rectangular Prism

$$V = Bh \text{ or } V = lwh$$

8 Which expression is represented by the phrase "the square of y decreased by the quotient of 28 and 7"?

A $\frac{28}{7} - y^2$

B $y^2 - \frac{28}{7}$

C $\frac{28}{7 - y^2}$

D $\frac{28}{y^2 - 7}$