

Icahn Charter Schools Weekly Math Learning Plan
Week of March 23, 2020 - March 27, 2020
Grade 7

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: IW22 Day 3](#)

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 "Part 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 "Stamina Continued"](#)

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

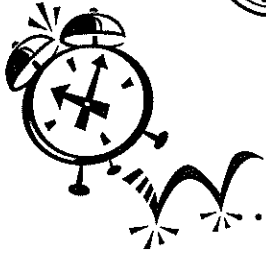
Friday: March 27, 2020

[Minute Math: Minute 5](#)

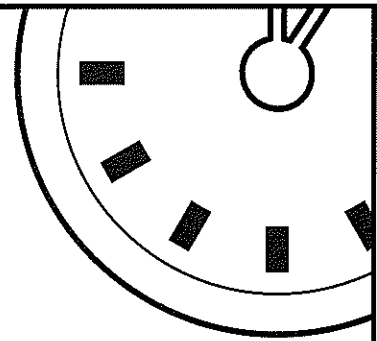
[Math Action Plan: IW24 Day 2](#)

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

NAME: _____



MINUTE 1



1. Simplify: $12(2 + 7 + 1) =$

2. $\frac{3}{10} \cdot \frac{7}{10} =$

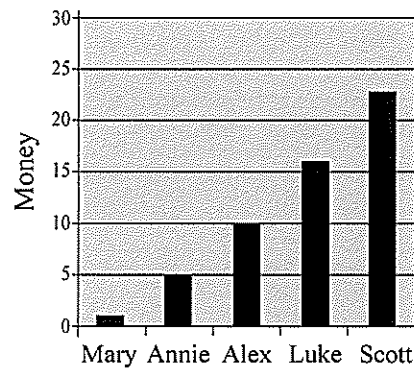
3. Circle all of the following equal to $\frac{2}{5}$: 0.4 $\frac{4}{100}$ 40%

4. $10 \cdot \square = 5$

5. Cross out the three-dimensional shape.

6. Each side of the regular pentagon is 5 centimeters. What is the perimeter? _____

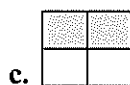
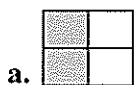
7. In the graph, Alex has _____ times as much money as Annie.



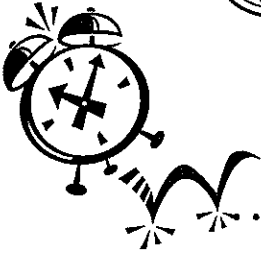
8. If $a = 5$ and $b = 4$, then $2a + b =$ _____.

9. If $3x = 27$, then $x =$ _____.

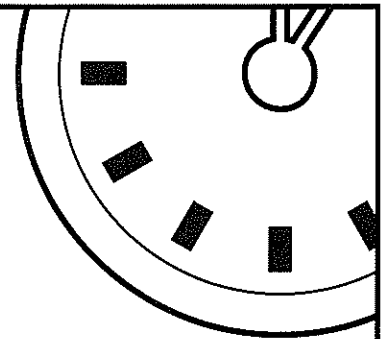
10. Which of the following shapes comes next in the pattern?



NAME: _____




MINUTE 2



1. $\frac{12}{2} \cdot \frac{1}{3} =$

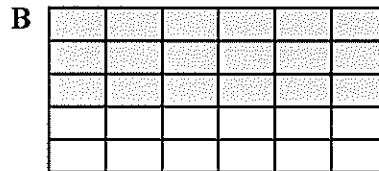
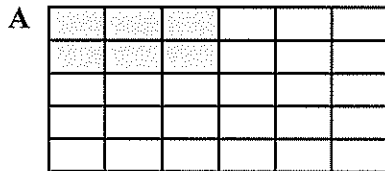
2. Use the correct symbol ($=$, $>$, or $<$) to complete: $\frac{3}{10} + \frac{7}{10} \square \frac{3}{10} \cdot \frac{7}{10}$

3. Which of the following does not belong? Circle your answer.

Two-tenths 0.2 20% 

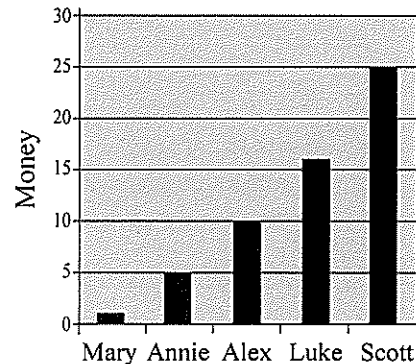
4. The distance between two cities would most likely be measured in:
 a. feet b. inches c. yards d. miles

5. The shaded area in figure B is _____ times greater than the shaded area in figure A.



6. The perimeter around the shaded area in figure A in Problem 5 is _____ units.

7. In the graph, _____ has five times as much money as _____.



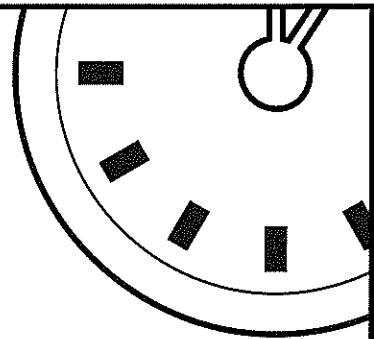
For Problems 8–10, evaluate if $a = 4$, $b = 6$, and $c = 2$.

8. $ab =$

9. $\frac{a+b}{c} =$

10. $b^2 =$

NAME: _____



MINUTE 3

1. $2 \left[\frac{30}{5} \right] =$

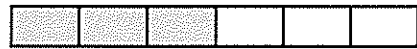
2. $\left(\frac{1}{4} \right) \left(\frac{1}{3} \right) =$

3. Which of these represents the greatest amount?

Circle: 62%

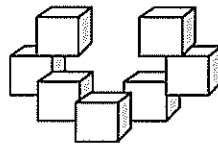
$\frac{1}{2}$

0.58



4. Use \cdot , $+$, $-$, or \div to complete the following equation. $2 \square 4 \square 1 = 9$

5. How many cubes are in this set? _____



6. The distance around the world at the equator is about 42,000 _____.

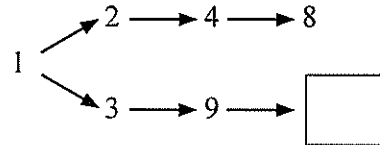
a. meters

b. kilometers

c. centimeters

d. millimeters

7. What number will complete the box? _____



For Problems 8–10, use $>$, $<$, or $=$.

8. $50\% \underline{\hspace{1cm}} \frac{1}{2}$

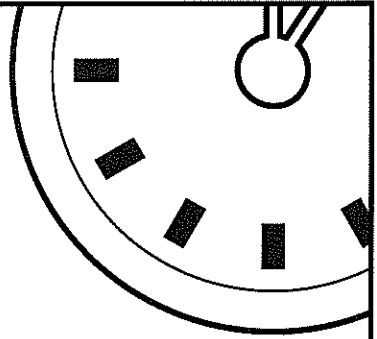
9. $3^2 \underline{\hspace{1cm}} 2^3$

10. $0.\bar{5} \underline{\hspace{1cm}} 0.5$

NAME: _____



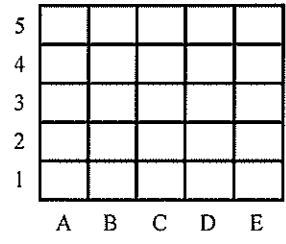
MINUTE 4



1. $0.7 \times 8 =$
2. $576 \div 10 =$
3. If $\frac{2}{5} + \frac{x}{5} = \frac{7}{5}$, then $x =$ _____.

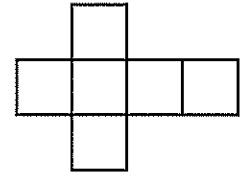
4. If $\left[\frac{3}{8}\right] \cdot \left[\frac{a}{2}\right] = \frac{15}{16}$, then $a =$ _____.

5. In the graph, shade column A and put an X in E4.

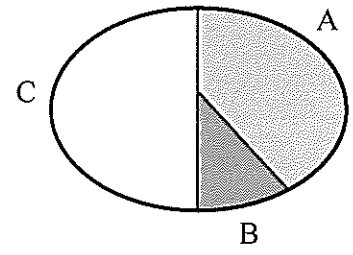


6. What shape would the net to the right create if you folded it?

- a.
- b.
- c.
- d.



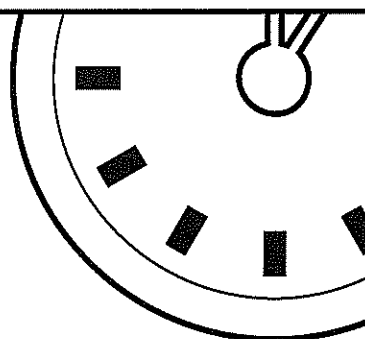
7. About what percent of the graph does region A represent?
a. 50% b. 90% c. 10% d. 33%



For Problems 8–10, estimate to find the best answer.

8. 19 out of 80:
a. 10% b. 40% c. 25% d. 75%
9. 9% of 55:
a. 50 b. 30 c. 20 d. 5
10. 194% of 40:
a. 225 b. 75 c. 40 d. 30

NAME: _____



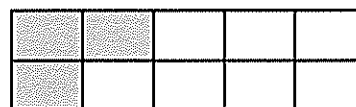
MINUTE 5

1. $0.5 \times 0.9 =$

2. $3 + 2 \cdot 4 + 5 =$

3. Which of these represents the least amount?

Circle: 0.35 $\frac{12}{50}$ 25%



4. Fill in the remaining prime numbers that are less than 20.

2			7		13		
---	--	--	---	--	----	--	--

5. Shade row 3 and column C.

4					
3					
2					
1					
	A	B	C	D	E

6. At what point does the row and column shaded in Problem 5 intersect? _____

7. In 1933, Wiley Post flew around the world in 7 days, 18 hours. Wiley's trip would best be described as flying around the _____ of the earth.

- a. perimeter b. area c. volume d. diameter

8. Find the number that completes the following problem.

$$\begin{array}{r} 2 \square \\ \times 8 \\ \hline 192 \end{array}$$

9. Find the number that completes the following problem.
 $(3 + 5) + 2 = 2(\square + 2)$

10. If $3 \times 3 \times 3 \times 3 = 3^x$, then $x =$ _____.

Network 7th MAP 2020 IW 23 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	<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

An expression is shown below:

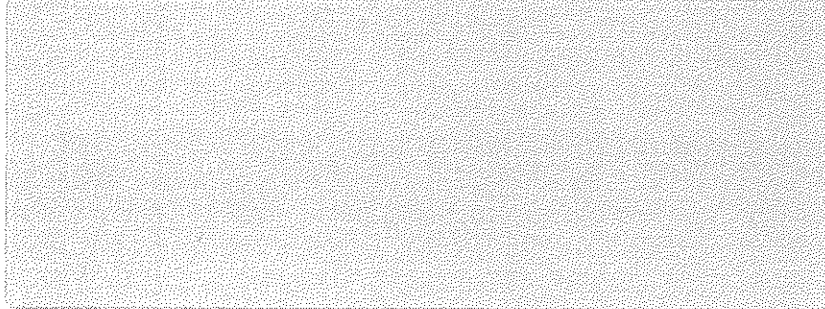
$$3(9a + 6b) - (5a + 2b)$$

Part A:

Simplify the expression shown above.

Part B:

If a represents apples that cost \$0.35 each and b represents bananas that cost \$0.20 each, what is the total cost based on the expression above?



2

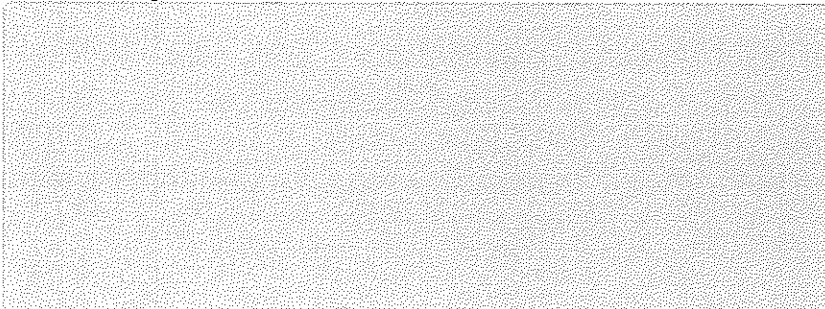
One large family of 9 owns a 239 acre plot of land. The parents wish to keep 50 acres of this land and divide the rest up evenly among the 7 children when they turn 18.

Part A:

Write an equation that shows how many acres (x) each child will receive when they turn 18.

Part B:

How many acres will each child receive?



- 3** An equation was solved using an algebraic procedure, as shown below.

$$-4(x-2)=10$$

$$-\frac{1}{4}[-4(x-2)=10]$$

$$x-2=-\frac{5}{2}$$

$$x-2-(-2)=-\frac{5}{2}-(-2)$$

$$x=-\frac{5}{2}+\frac{4}{2}$$

$$x=-\frac{1}{2}$$

Which of the following describes an equivalent arithmetic procedure for finding the same solution to the equation?

- A** Divide both sides of the equation by -4 and then subtract 2 from both sides.
- B** Divide both sides of the equation by 4 and then subtract 2 from both sides.
- C** Divide both sides of the equation by -4 and then add 2 to both sides.
- D** Divide both sides of the equation by 4 and then add 2 to both sides.

- 4** Which of the following word problems can be solved using the equation $4(x + 8) = 40$?
Select ONE that applies.

- A** Four friends share a box of cookies. After each friend receives x cookies, there are still 8 cookies left in the box. If there were initially 40 cookies in the box, how many cookies did each friend receive?
- B** A student has four bags of marbles. Each bag originally has x marbles. After taking out 8 marbles from each bag, there is a total of 40 marbles in the bags. How many marbles were originally in each bag?
- C** A square has a side length of x inches. Each side of the square will be increased by 8 inches to create a larger square. If the larger square has a perimeter of 40 inches, what is the side length, in inches, of the original square?

- 5** Lee scored 25 points in yesterday's game. That was 3 more than twice the number of points Alex scored.

Which equation can be used to find, a , the number of points Alex scored?

- A** $25 + 3 = 2a$
- B** $25 = 3 + 2a$
- C** $2(25) + 3 = a$
- D** $2(25) = 3 + a$

- 6** Tina and Tammy both get paid an equal hourly wage of \$12 per hour. This week, Tina made an additional \$46 in overtime. Select the expression below that represents the weekly wages of both if x = the number of hours Tina worked this week and y = the number of hours Tammy worked this week.

- A** $12x - 12y - 46$
- B** $12(x - y) + 46$
- C** $12(x + y) + 46$
- D** $(12x + 46) - (12y)$

- 7** Jake walked all the way around the perimeter of a square playground that has sides n feet long, then he walked an additional 20 feet. Which person walked the same distance as Jake?

- A** Sarah, who walked a straight distance of $n + 20$ feet
- B** Billy, who walked around a square lot measuring 20 feet on each side
- C** Jules, who walked around a rectangular room measuring n feet wide and 10 feet long
- D** Nancy, who walked around a square garden measuring $n + 5$ feet on each side

8

Jackson is given the expression below to simplify.

$$9x - 4 + 4x + 5x + 19$$

Which expression is equivalent to Jackson's expression?

A $3(6x + 5)$

B $18x + 23$

C $5(x + 2)$

D $14x + 19$

Network 7th MAP 2020 IW 22 D3

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 Simplify.

$$-\frac{3}{4} - \frac{3}{8}$$

A $\frac{3}{8}$

B $-\frac{3}{8}$

C $-\frac{9}{8}$

D $-\frac{6}{8}$

2 Deirdre comes across the equation below on her math homework.

$$-4(5 - 7) = x$$

Deirdre correctly solves for the value of x . What answer does she find?

A $x = -48$

B $x = -8$

C $x = 8$

D $x = 48$

3 What is the value of the expression?

$$-8 - (-3) + 2$$

A -13

B -9

C -7

D -3

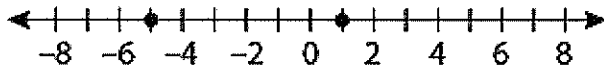
- 4** Felix writes the math problem below.

$$(-3)(-5 + (-8)) = n$$

Which is true?

- A** $n = -39$
- B** $n = -9$
- C** $n = 9$
- D** $n = 39$

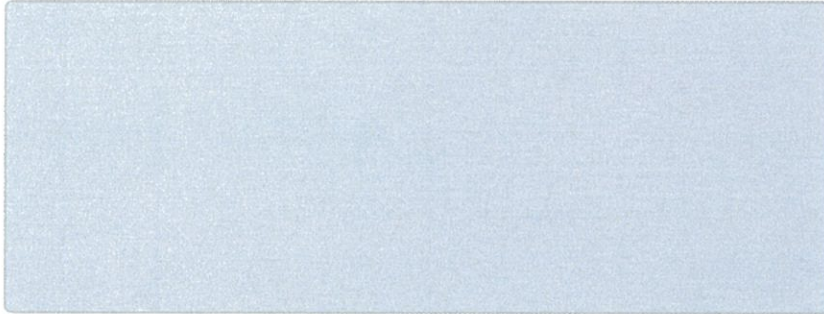
- 5** Look at the number line below.



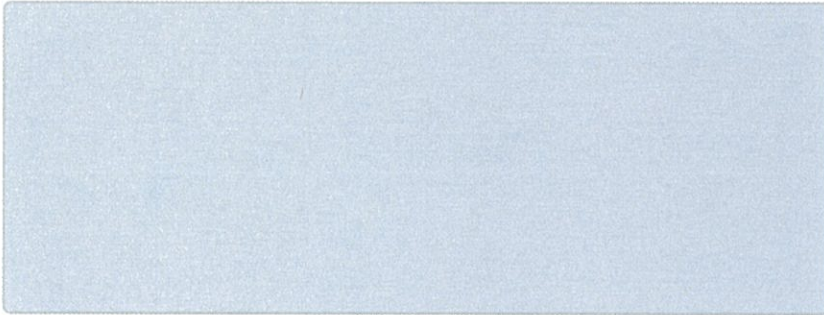
Which expression represents the distance, in units, between the two points?

- A** $|-5+1|$
- B** $1-(-5)$
- C** $1+(-5)$
- D** $-5+|+1|$

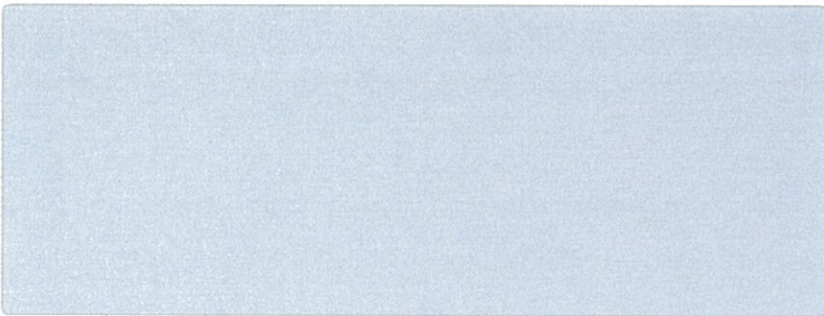
- 6** A. A diver descends 15 feet below sea level. She then ascends 7 feet. State the depth of the diver in terms of sea level. Explain how the depth was determined.



- B. Suppose the diver now descends an additional 14 feet. State the new depth of the diver in terms of sea level. Explain how this depth was determined.



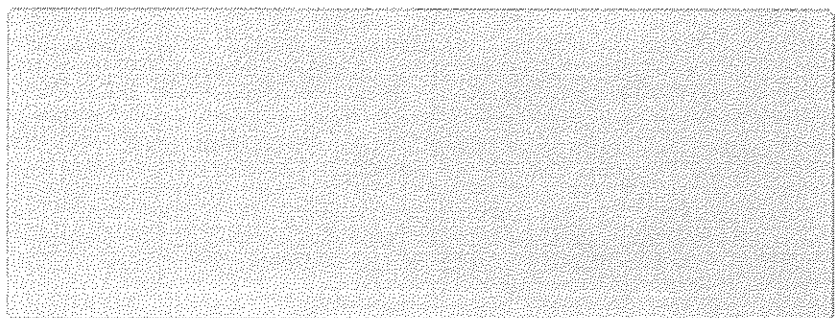
- C. Explain how the diver will reach sea level from the position found in part B. Show any calculations to support your explanation, and state the direction and number of feet the diver must swim.



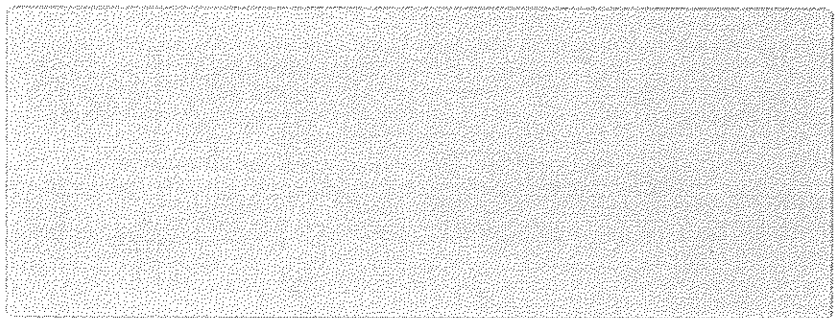
7

The city's library is located on Main Street. Four students are located at different subway stations on a straight track that runs from west to east along Main Street. Courtney is at a station $3\frac{3}{10}$ miles west of the library, Javier is at a station $4\frac{3}{5}$ miles east of the library, Sarah is at station $4\frac{5}{6}$ miles west of the library, and Vineet is at a station $5\frac{1}{3}$ miles east of the library.

A. Construct a number line that shows the positions of the four students with the library located at the origin. Stations west of the library should be represented by negative numbers and stations to the east by positive numbers. Be sure that the distances are proportional when marking them on the number line.



B. Explain how to determine how far each of the four students are from each other. Show all of your work and provide each of the distances as mixed numbers.



Network 7th MAP 2020 IW 24 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	<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 Franklin needs 1.25 meters of ribbon to wrap each gift. He has a spool of ribbon that contains 25 feet of ribbon. One meter is equivalent to approximately 3 feet. How many gifts of the same dimension can he wrap using the spool of ribbon?

- A** 8 gifts
- B** 4 gifts
- C** 6 gifts
- D** 20 gifts

2 At the end of summer, Spencer's favorite toy store had a huge sale. Spencer picked out a remote-control car on sale for 20% off the original price of \$79.99. He also picked out a robot for 25% off the original price of \$99.99.

How much money did Spencer save?

- A** \$25.00
- B** \$40.98
- C** \$41.00
- D** \$138.98

3 Which situation can be represented by the expression below?

$$(-3.5)(5)$$

- A** The value of a certain stock increased less than \$3.50 each hour during a 5-hour period.
- B** The value of a certain stock decreased a total of \$3.50 during a 5-hour period.
- C** The value of a certain stock increased \$3.50 each hour during a 5-hour period.
- D** The value of a certain stock decreased \$3.50 each hour during a 5-hour period.

4 What is the product of 1.7 and -3.2 ?

- A** -5.44
- B** -1.5
- C** 1.5
- D** 5.44

5 Sal purchased b bowls for $\$7.50$ each and paid $\$15$ for shipping. The total cost of Sal's purchase was $\$75$. How many bowls did he buy?

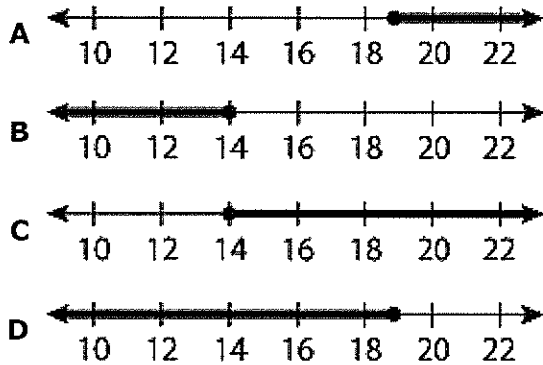
- A** 8
- B** 5
- C** 10
- D** 12

6 Lisa made $\$201.50$ selling 13 of her old video games.

If she sold them all at the same price, which equation can be used to find, p , the price she sold each video game for?

- A** $13p = 201.50$
- B** $\frac{13}{p} = 201.50$
- C** $\frac{p}{13} = 201.50$
- D** $13(201.50) = p$

- 7** Jake wants to call his cousin from his new cell phone. The first minute costs \$0.25 and each additional minute costs \$0.10. Jake has \$1.65 to spend on his call with his cousin. Which graph shows how many minutes they can talk on the phone?



- 8** Sierra is buying treats for her birthday party. She can spend no more than \$70 on cookies that cost \$7.50 per box. How many boxes of cookies can Sierra purchase?

- A** up to 7 boxes
- B** up to 8 boxes
- C** up to 9 boxes
- D** up to 10 boxes

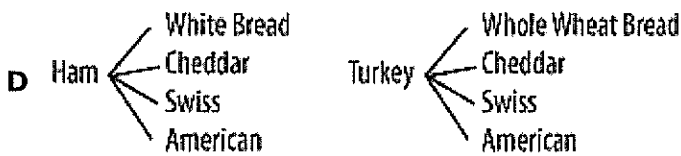
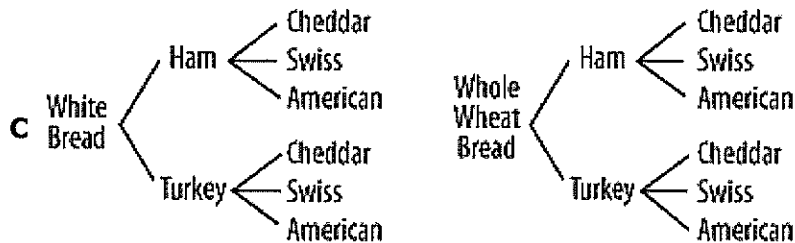
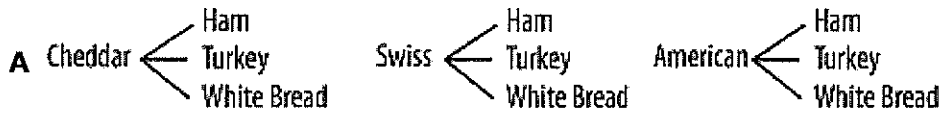
- 9** Tony flips a coin and gets heads. He tells his friend that he can get heads two more times in a row. What is the probability that Tony will flip a coin and get heads three times in a row?

- A** $\frac{1}{8}$
- B** $\frac{1}{2}$
- C** $1\frac{1}{2}$
- D** 2

10 Lunch is being served to members of a club. Each member can order a sandwich by choosing one type of bread, one kind of meat, and one kind of cheese. The choices are as follows:

- Bread: white or whole wheat
- Meat: ham or turkey
- Cheese: cheddar, Swiss, or American

Which of the following shows the correct sample space for this event?



Network 7th MAP 2020 IW 24 CONT D1 Stamina

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

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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

Solve:

$$\frac{15}{18} - \left(\frac{1}{3} + \frac{1}{6} \right)$$

A $\frac{13}{9}$

B $\frac{13}{18}$

C $\frac{2}{3}$

D $\frac{1}{3}$

2

Felix writes the math problem below.

$$(-3)(-5 + (-8)) = n$$

Which is true?

A $n = -39$

B $n = -9$

C $n = 9$

D $n = 39$

3

Deirdre comes across the equation below on her math homework.

$$-4(5 - 7) = x$$

Deirdre correctly solves for the value of x . What answer does she find?

A $x = -48$

B $x = -8$

C $x = 8$

D $x = 48$

- 4** Ava used the following equation in order to solve a math problem involving integers.

$$\frac{-h}{-k} = j$$

If the equation Ava used is correct, which of the following equations is *not* correct?

A $-j = \frac{-h}{-k}$

B $j = \frac{h}{k}$

C $-j = \frac{-h}{k}$

D $-j = \frac{h}{-k}$

- 5** Yesterday, Lou earned \$12.76 selling lemonade and \$4.87 selling ice pops at his stand. Today, he bought 2 pizzas for \$5.00 each. How much money does he have left?

A \$7.63

B \$27.63

C \$12.63

D \$22.63

6 Kyle is told that the distance between the lower waterfall and the upper waterfall is $1\frac{1}{2}$ miles. The distance between the waterfalls on Kyle's map is $\frac{1}{2}$ inch. How many miles does 1 inch represent on the map?

- A** $\frac{1}{3}$ mile
- B** $\frac{3}{4}$ mile
- C** 2 miles
- D** 3 miles

7 Deborah bought a yard of ribbon for \$14.76. How much did Deborah pay per inch? (1 yard = 3 feet.)

- A** \$0.41
- B** \$0.49
- C** \$1.23
- D** \$4.92

- 8** The table shows how three cell phone companies charge for minutes.

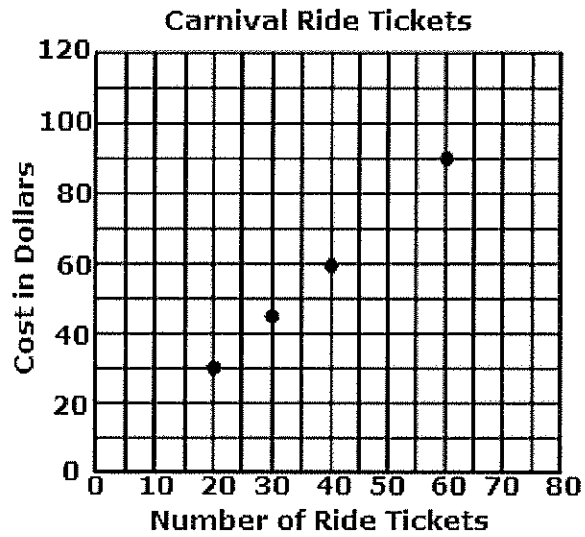
Cell Phone Plan Comparison

Company	Number of Minutes per Month			
	100	200	500	1200
Mobile Plus	\$20	\$30	\$40	\$50
Cellular Prime	\$10	\$20	\$50	\$60
Nation Mobile	\$5	\$10	\$25	\$60

For which company or companies is there a proportional relationship between the number of minutes and the monthly cost?

- A** Nation Mobile only
- B** Mobile Plus and Cellular Prim
- C** Mobile Plus only
- D** Nation Mobile and Cellular Prime

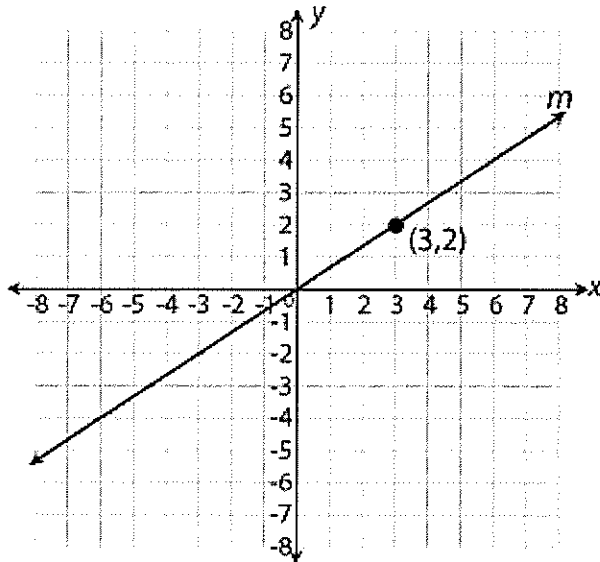
- 9 The graph below shows the costs of books of tickets for carnival rides and the number of ride tickets in each book. What is the cost per ride ticket?



- A \$0.67
- B \$0.75
- C \$1.33
- D \$1.50

10

The coordinate plane below shows the graph of line m . The line passes through the origin and the point $(3,2)$.



On line m , as the value of x increases by 1, what is the increase in the value of y ?

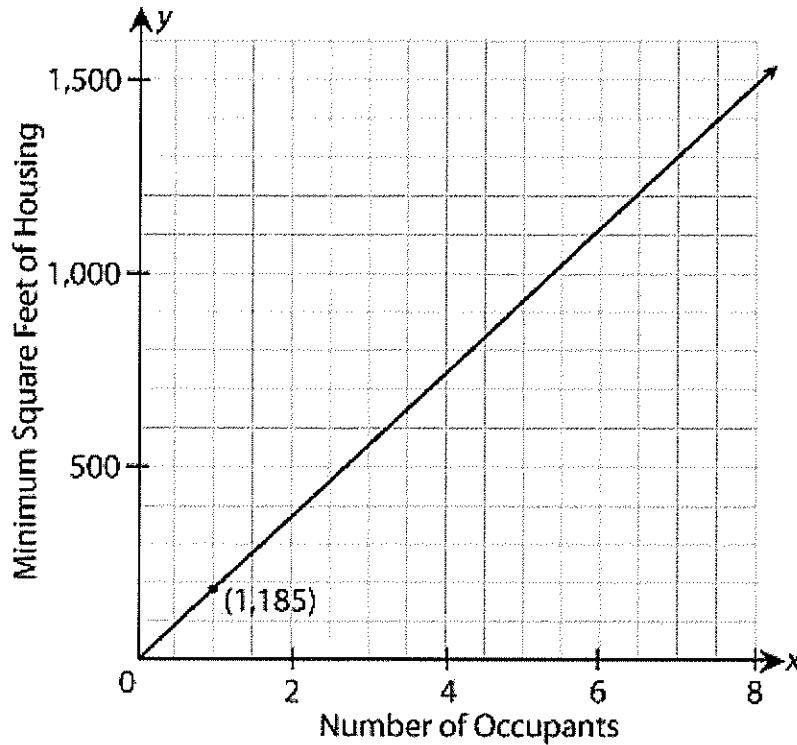
A $\frac{2}{3}$

B $1\frac{1}{2}$

C 1

D 6

- 11** A real estate development company uses a formula to help determine the sizes of the apartments it builds. This formula specifies the minimum size, in square feet, that is required based on number of occupants. The graph below indicates these minimum values.



What is the meaning of the point labeled on the graph?

- A** The y -value is the minimum square feet required per occupant.
 - B** Its coordinates indicate the maximum price of a residence.
 - C** Its x -coordinate is the unit rate of the equation.
 - D** Its x -value represents the number of occupants in any residence.
- 12** José put \$1,500 into a savings account. He earns 3% interest every year. How much simple interest will he earn at the end of 3 years?
- A** \$45.00
 - B** \$135.00
 - C** \$4,500.00
 - D** \$13,500.00

13 Jake is buying a sweater with a price of \$30 shown on the tag. The store is having a sale that will reduce the price by 30%. Sales tax of 5% will be added to the final purchase price. What is Jake's total cost for the sweater?

- A \$21.00
- B \$22.05
- C \$22.50
- D \$31.50

14 The cost of a meal at a local restaurant last year was \$7.50. This year the meal costs \$9.00. What is the percent increase of the meal price from last year to this year?

- A 10%
- B 15%
- C 20%
- D 25%

15 Which is the simplified version of $7x - 4(x - 8) = 56$?

- A $11x + 32 = 56$
- B $3x - 8 = 56$
- C $3x - 32 = 56$
- D $3x + 32 = 56$

16 Which expression is the simplified form of $-10 + 3x - x - 7x + 5x + 7 + 2x$?

- A $4x - 3$
- B $2x - 3$
- C $-18x - 17$
- D $-x$

17 Which is the simplified version of $75 = -\frac{7}{5}(x + 5)$?

- A $75 = -\frac{7}{5}x - \frac{7}{25}$
- B $75 = -\frac{7}{5}x - \frac{7}{25}$
- C $75 = -\frac{7}{5}x - 7$
- D $75 = -\frac{7}{5}x + 5$

18 There are 400 seats in the Jefferson Middle School auditorium. Students are sitting in $\frac{3}{5}$ of the seats. Teachers are sitting in 65 of the seats. How many seats are NOT being used in the auditorium?

- A 95
- B 175
- C 240
- D 305

19 Which equation could be used to solve the following problem?

Tehara has read 115 pages of a 305-page book. She reads 10 pages each day. How many days will it take to finish?

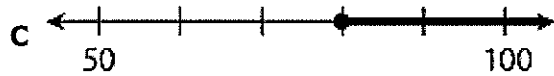
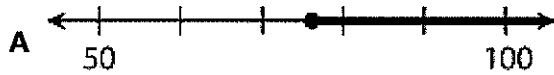
A $10 + 115p = 305$

B $10p + 305 = 115$

C $115 + 10p = 305$

D $115 \cdot 10p = 305$

20 To earn a grade of B or above for the semester, a student must have a test average greater than or equal to 80. Jill's score on the first three tests for the semester are 80, 76 and 88. Which of the following represents the range of scores Jill must get on the fourth test to earn at least a B for the semester?



Network 7th MAP 2020 IW 24 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 Allan has a piece of string that is 5.4 meters in length. He needs some smaller pieces that are 0.6 meters in length. How many smaller pieces of string can be cut from Allan's string?

- A 4.8 pieces
- B 11.0 pieces
- C 6.0 pieces
- D 9.0 pieces

2 Which of the following fractions is equivalent to $(-13) \div (-6)$?

- A $-\frac{13}{6}$
- B $-\frac{6}{13}$
- C $-2\frac{1}{6}$
- D $\frac{13}{6}$

3 Bonnie borrowed \$2400.00 from the bank. Each year the bank charges 6% simple interest. How much interest will be owed in one year if no payments are made?

- A \$6.00
- B \$24.00
- C \$144.00
- D \$400.00

4 The number of apples in a box decreased from 150 to 135. What is the percent decrease of the number of apples in the box?

- A** 0.15%
- B** 10%
- C** 15%
- D** 90%

5 There are 400 seats in the Jefferson Middle School auditorium. The students are using $\frac{3}{5}$ of the seats. There are 65 seats being used by teachers. How many seats are NOT being used in the auditorium?

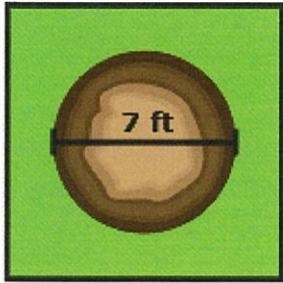
- A** 95
- B** 175
- C** 240
- D** 305

6 For a certain recipe, Ben takes a $5\frac{1}{2}$ -cup sack of sugar and uses all but $1\frac{3}{4}$ cups.

Which of these also describes the amount of sugar used in Ben's recipe?

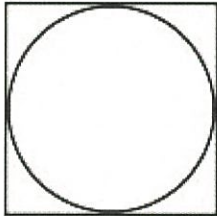
- A** using 28 packets each containing $\frac{1}{16}$ cup of sugar
- B** using $\frac{1}{2}$ of a canister containing $3\frac{1}{2}$ cups of sugar
- C** using 3 bowls each containing $1\frac{1}{4}$ cups of sugar
- D** using $\frac{3}{4}$ of a sack containing 3 cups of sugar

- 7** A family just removed a big tree from their backyard. The diameter of the circular hole left behind is 7 feet across. Approximately how many square feet of grass will the family need if they want to cover the area where the tree once was?



- A** 22 ft²
- B** 39 ft²
- C** 44 ft²
- D** 154 ft²

- 8** The diagram shows a circle inside a square.

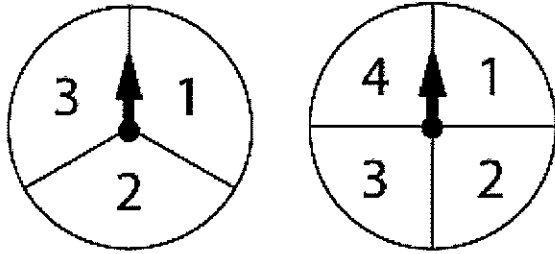


The square has a perimeter of 32 inches. What is the approximate circumference of the circle? Use 3.14 for π .

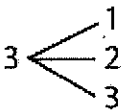
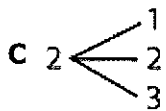
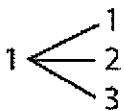
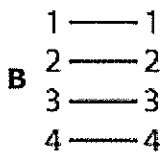
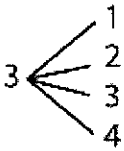
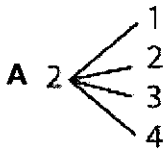
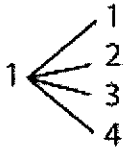
- A** 12.56 inches
- B** 25.12 inches
- C** 50.24 inches
- D** 100.48 inches

9

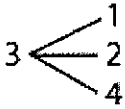
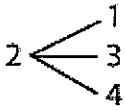
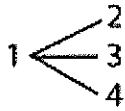
The two spinners shown are being used to play a game.



On each turn of the game, the arrows on both spinners are spun. Which diagram shows all the possible outcomes for a turn?



D



10

A bag being used in a probability experiment contains 3 white marbles (W) and 2 black marbles (B). During each trial of the experiment, one marble is taken from the bag at random, its color is recorded, the marble is replaced in the bag, and then a second marble is taken from the bag. Which list best shows all the possible outcomes for a trial?

- A** WW, WB, BB, BW, WW
- B** WW, BB
- C** WW, BW, BB
- D** WW, WB, BW, BB