

Name _____

19. Point E is located at $(-5, 2)$. Point M is the reflection of point E across the y -axis. What is the distance between E and M ? In what quadrant is point M ?

2. The ages of 10 boys are listed below. Select Yes or No for each statement.
- 7, 6, 8, 6, 8, 7, 8, 7, 8, 6
- 2a. The range is 3.
 Yes No
- 2b. The median and mode are 7.
 Yes No
- 2c. The median is 7 and the mode is 8.
 Yes No
- 2d. The median is 8 and the mode is 7.
 Yes No

3. Chad earned the following test scores:
 70, 85, 100, 87, 80, 70, 95, 91
- Choose the words from the box that make the inequalities true.

mean median mode range

mean < _____
 mode > _____

4. The data show yearly rainfall for a 9-year period in inches:
 29, 24, 19, 21, 23, 27, 26, 29, 18

What is the MAD for this set of data in inches?

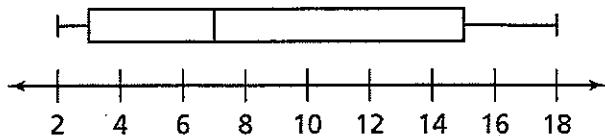
15. The table shows the temperatures in different cities around the world.

City	Temperature (°C)
Danville	-22
Somerville	-6
Ulsan	15
Keflavik	-13
Smithfield	18

Order the temperatures from coldest to warmest.

6. Choose the numbers from the box that make the statements correct.

2 3 7 15 18 16 17 12



The third quartile is _____, and the first quartile is _____. The IQR is _____.

MINIMUM _____ MEDIAN _____
 MAXIMUM _____

7. Eight homerooms in a middle school had the following distribution of students. What is the MAD of students?

29, 32, 33, 28, 30, 30, 29, 33

- (A) 1.25 (C) 2.25
(B) 1.625 (D) 2.8

11. Which expression has a quotient of 61? Select all that apply.

$2,867 \div 47$

$4,650 \div 75$

$2,379 \div 39$

$3,276 \div 52$

$5,063 \div 83$

25. Jack writes $-2^{\circ}\text{C} > -5^{\circ}\text{C}$ to compare the temperature on two winter days. Do you agree with his comparison? Explain.

9. For each of 7 weeks babysitting, Kelly made the following dollar amounts: 16, 28, 28, 32, 21, 18, and 35. What is the first quartile of this data?

5. Jacy paid \$15.48 to download 12 songs last month. She paid the same amount for each song.

Part A

Let s represent the amount that Jacy paid for each song she downloaded. Write a multiplication equation that you could use to find the value of s .

Part B

Explain how you can use inverse relationships to solve this problem.

Part C

How much did Jacy pay to download each song?

27. Cary earned \$56 for 7 hours of babysitting.

Part A

What is Cary's unit rate for babysitting?

Part B

At this rate, how much would Cary earn for 55 hours of babysitting?

14. Which table represents the ratio below?

$\frac{3 \text{ rotten apples}}{15 \text{ fresh apples}}$

(A)

Rotten Apples	15	25	35
Fresh Apples	3	5	7

(B)

Rotten Apples	15	25	35
Fresh Apples	3	6	9

(C)

Rotten Apples	3	6	9
Fresh Apples	15	25	35

(D)

Rotten Apples	3	5	7
Fresh Apples	15	25	35

3. Colleen has a bank account balance of \$16.43. Toby has a bank account balance of $-\$10.21$. Yosef has a bank account balance of \$8.98. Which of the following statements are true? Select all that apply.

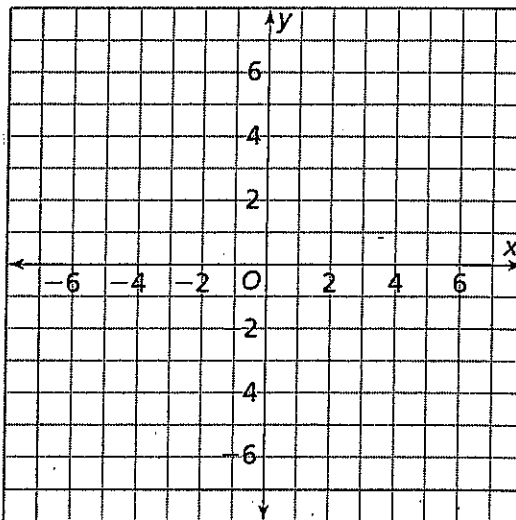
- Colleen has the most money in her bank account.
- Toby has more money than Colleen.
- Yosef has less money than Toby.
- Toby's balance is further from \$0 than Yosef's balance.
- Colleen's balance is further from \$0 than Toby's balance.

30. Vince uses a coordinate plane to map an amusement park. The ordered pairs below are locations of entrances to different rides at the park.

- $A(-7, 7)$ $B(6, 7)$ $C(6, -2)$
 $D(3, -2)$ $E(3, -6)$ $F(-7, -6)$

Part A

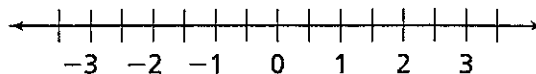
Graph and label the ordered pairs. Then connect the points to show the path around the park.



Part B

What is the length of the path on the grid?

5. Graph and label point A at $2\frac{1}{2}$, point B at -2.75 , and point C at -0.25 on the number line below.



6. The table shows the low temperatures in four cities on Saturday.

City	Temperature (°C)
Alford	-2.5
Gainesville	-0.4
Follett	-6.1
Fowlerton	3.4

Part A

Write each temperature in a box below to show the order from coldest to warmest.

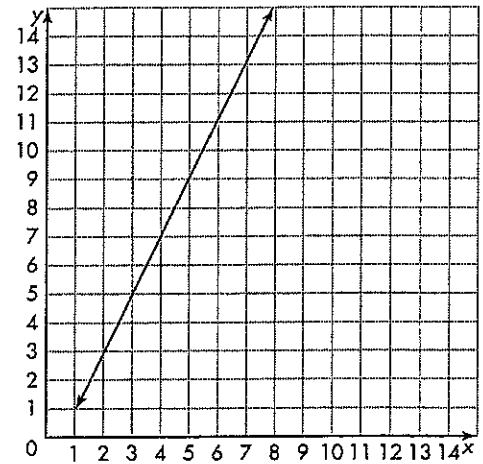
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Part B

Explain how you could use a number line to order the temperatures.

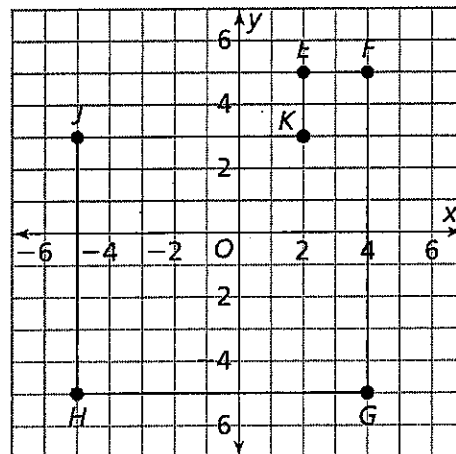
28. At Brown Elementary School, 80% of all fifth graders ride the bus to school. If 124 fifth graders ride the bus to school, how many fifth graders are there at the school?

2. Which equation represents the graph below?



- (A) $y = 2x - 2$ (C) $y = 2x - 1$
 (B) $y = 3x - 1$ (D) $y = x - 1$

10. What is the perimeter, in units, of polygon $EFGHJK$? Show your work.



30. A store sells packs of 3 mini-pizzas for \$5.

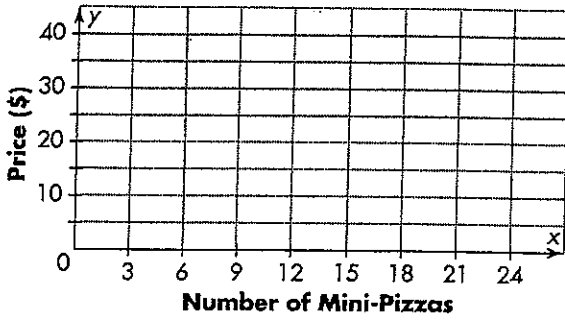
Part A

Complete the ratio table to show the price for up to 15 mini-pizzas.

Mini-Pizzas		6		12	15
Price (\$)	5		15		

Part B

Plot the data from the table on the coordinate plane. Then draw a line to show the cost of more mini-pizzas.



Part C

How much would 24 mini-pizzas cost?

18. Draw lines to match each measurement on the left with an equivalent measurement on the right.

24 tsp

12 tbsp

6 fl oz

16 qt

8 pt

8 tbsp

4 gal

24 fl oz

3 c

16 c

19. Dan read 104 pages of his book. He has 68% of his book left to read. How many pages are in his book? Explain.

20. Kevin correctly answered 75% of 32 test questions.

Part A

How many questions did Kevin answer correctly?

Part B

How many more questions would Kevin have had to answer correctly to get more than 80% correct? Explain.

21. Select all of the measurements that are equivalent to 528 meters.

- 52,800 cm
- 528,000 km
- 5,280 cm
- 528,000 mm
- 0.528 km

