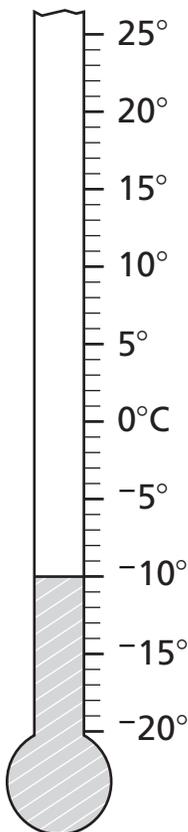


Introducing Negative Numbers

Here are the daily low temperatures for one cold week. Fill in the table to show how the temperature changed from one day to the next.

1



Day	Low Temperature	Change From Yesterday
Sunday	-10°C	
Monday	-16°C	6 degrees lower
Tuesday	6°C	
Wednesday	13°C	
Thursday		15 degrees lower
Friday		9 degrees lower
Saturday	-19°C	

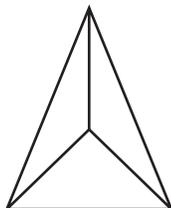
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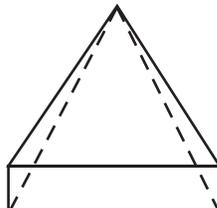
Test Prep

2 Which of these figures has 5 faces and 5 vertices?

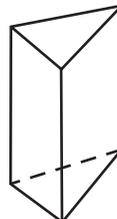
A.



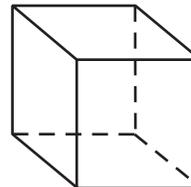
B.



C.



D.



Negative Numbers on the Number Line

Fill in the missing numbers on this number line and use it to help you answer the questions.



- 1 Start at 0. Jump forward 6 spaces.
Then jump backward 8 spaces.

Where are you? _____

- 2 Start at 3. Jump backward 8 spaces.
Then jump forward 12 spaces.

Where are you? _____

- 3 Start at 10. Jump backward 20 spaces.
Then jump forward 6 spaces.

Where are you? _____

- 4 Start at -3 . Jump backward 6 spaces.
Then jump forward 2 spaces.

Where are you? _____



Test Prep

- 5 What decimal is equal to $\frac{52}{100}$?

A. 0.0052
B. 0.052
C. 0.52
D. 52

- 6 What fraction is equal to 0.25?

A. $\frac{1}{4}$ C. $\frac{1}{2}$
B. $\frac{1}{3}$ D. $\frac{2}{5}$

Navigating on a Coordinate Grid

1 Write the ordered pair for each building on the map.

School
(1,6)

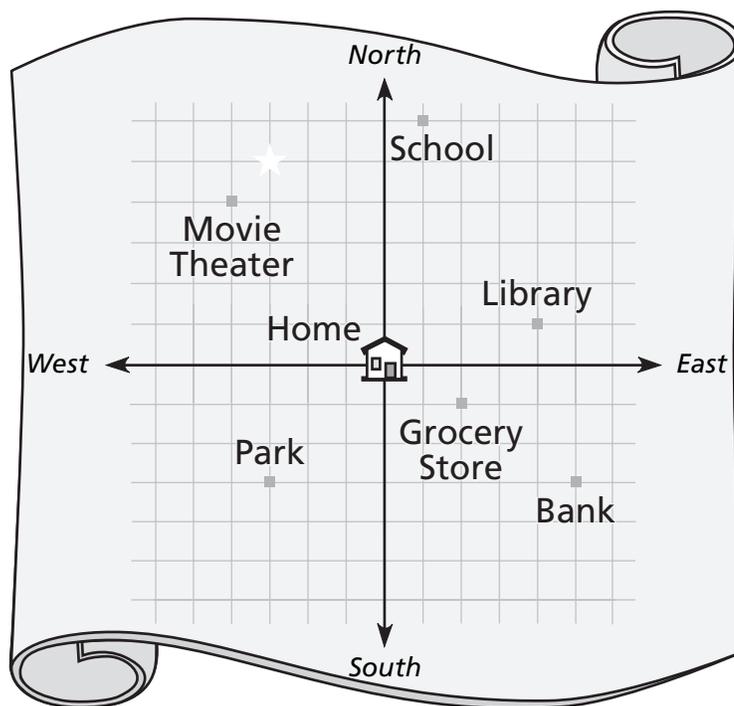
Bank

Library

Park

Movie Theater

Grocery Store



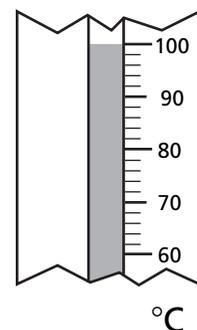
2 The Community Center is at $(-3,5)$. Mark its location with a star.



Test Prep

B Caitlin boiled water for a science experiment. This thermometer shows the water's temperature when it was boiling. She checked it 10 minutes later and found the water's temperature had dropped by 23°C . What was the new temperature?

- A. 67°C
- B. 73°C
- C. 77°C
- D. 87°C



Points and Lines on a Grid

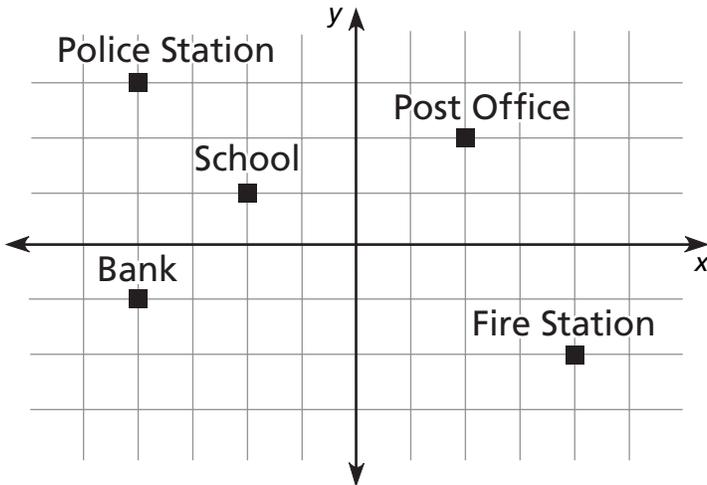
1 Fill in the missing numbers on the number line. You can use the number line to help answer the questions.



2 At 7:00 A.M. on Sunday, the temperature was 4° . At 9:00 P.M., the thermometer read -2° . What was the change in temperature between these two times?

3 Sean placed his finger at -5 on the number line. He jumped forward 6 spaces and then back 1 space. Where did his finger land?

4 Write the coordinate pair for each building on the map.



- Police Station $(-4, 3)$
- School $(\underline{\quad}, \underline{\quad})$
- Bank $(\underline{\quad}, \underline{\quad})$
- Post Office $(\underline{\quad}, \underline{\quad})$
- Fire Station $(\underline{\quad}, \underline{\quad})$

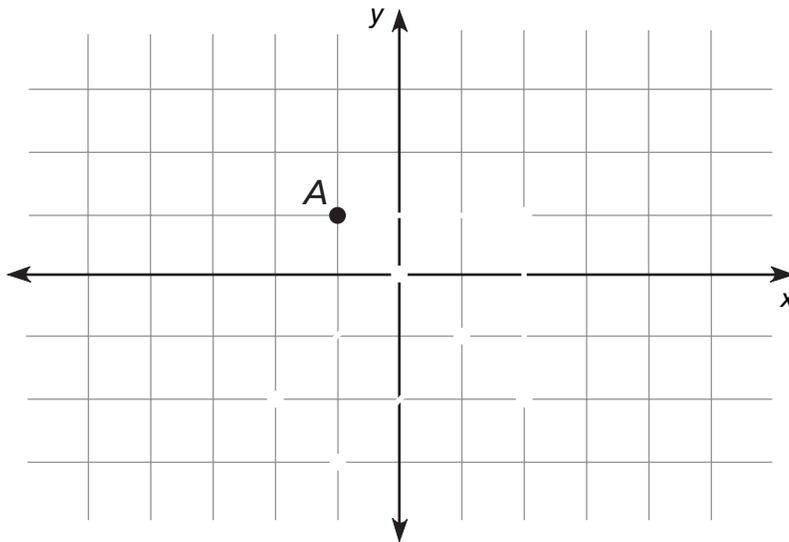


Test Prep

5 Miri opened a bottle containing 1 liter of juice. She shared the juice equally with her sister Jordyn. How many milliliters of juice did they each get? Explain how you found the answer.

Drawing Figures on a Coordinate Grid

1 Follow the directions to draw the picture.



Mark **A** at $(-1, 1)$.

Draw \overline{AB} .

Mark **B** at $(2, 1)$.

Draw \overline{BC} .

Mark **C** at $(2, -2)$.

Draw \overline{CD} .

Mark **D** at $(1, -1)$.

Draw \overline{DE} .

What shape do you see?

Mark **E** at $(-1, -3)$.

Draw \overline{EF} .

Mark **F** at $(-2, -2)$.

Draw \overline{FG} .

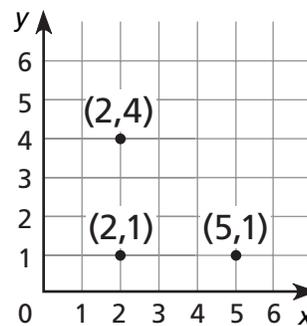
Mark **G** at $(0, 0)$.

Draw \overline{GA} .



Test Prep

2 Antonio is drawing a square on the grid. What is the ordered pair for the fourth corner of the square? Explain how you found the coordinates.

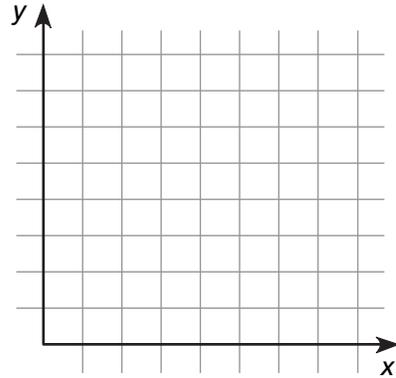


Moving Figures on a Coordinate Grid

Use the grid to draw the figures for items 1–3.

1 Follow the directions to draw the figure.

- Mark **A** at (8,5). Draw \overline{AB} .
- Mark **B** at (5,5). Draw \overline{BC} .
- Mark **C** at (3,3). Draw \overline{CD} .
- Mark **D** at (6,3). Draw \overline{DA} .



2 Subtract 3 from both coordinates of each point, and label the new figure #2.

Original Points	New Points
(8,5)	(5, 2)
(5,5)	
(3,3)	
(6,3)	

3 Add 3 to the vertical (second) coordinate of each point, and label the new figure #3.

Original Points	New Points
(8,5)	(8,8)
(5,5)	
(3,3)	
(6,3)	



Test Prep

4 Mr. Macus needs to visit the Bank, the Library, and the Post Office tomorrow. Here are some of the possible orders he might visit them.

- 1. Bank
- 2. Post Office
- 3. Library

- 1. Library
- 2. Post Office
- 3. Bank

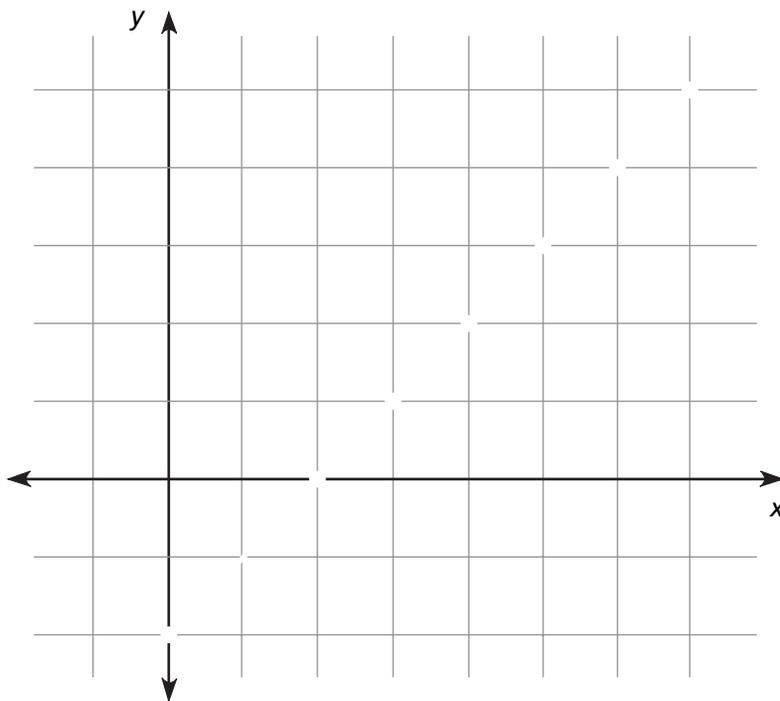
- 1. Bank
- 2. Library
- 3. Post Office

List all of the other possible orders he might follow.

Number Sentences and Straight Lines

- 1 Find at least 5 pairs of numbers that make this number sentence true: $y = x - 2$.

(x,y)



- 2 Graph the points described by the pairs of numbers in the table.



Test Prep

- 3 Jamal started his homework at 2:55 P.M. He finished one hour and fifty minutes later. When did he finish his homework?
- A. 3:45 P.M. C. 4:45 P.M.
B. 4 P.M. D. 5:05 P.M.
- 4 Which number sentence is true if you substitute 11 for ■?
- A. $111 \div \blacksquare = 11$
B. $121 \div \blacksquare = 12$
C. $132 \div \blacksquare = 12$
D. $110 \div \blacksquare = 11$