

Al Mutanabi school – Grade 6

Chapter 5 : Integers and Coordinate plane

Absolute Value

CS1

Find the value:

1) $ 4 = \square$	2) $ -13 = \square$	3) $- 10 = \square$
4) $- -7 = \square$	5) $ 11 = \square$	6) $ -2 = \square$
7) $- 12 = \square$	8) $- 5 = \square$	9) $ 1 = \square$

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Absolute Value

Add/Sub: S1

Find the value:

1) $ -7 - 3 = \square$	2) $ 12 + 8 = \square$	3) $ 13 - -7 = \square$
4) $ -14 + -4 = \square$	5) $ -9 + 7 = \square$	6) $ 6 - 1 = \square$
7) $ 11 + -12 = \square$	8) $ -10 - -2 = \square$	9) $ -13 + 4 = \square$

5) Which choice shows the values from least to greatest?

- A. -4, 4, 6, 8
- B. 6, -4, 8, 4
- C. 4, -4, 6, 8
- D. 4, -4, 8, 6

6) Which choice shows the values from greatest to least?

- A. 0, -7, -4, -5
- B. -5, -7, -4, 0
- C. -4, -5, 0, -7
- D. 0, -4, -5, -7

7) Which choice shows the values from least to greatest?

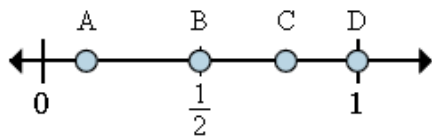
- A. 8, 5, 9, -4
- B. 5, -4, 8, 9
- C. 5, -4, 9, 8
- D. -4, 5, 8, 9

8) Which choice shows the values from least to greatest?

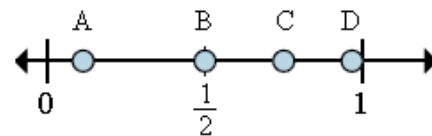
- A. -7, -1, 7, 9
- B. 9, 7, -7, -1
- C. 7, -1, 9, -7
- D. 9, -7, 7, -1

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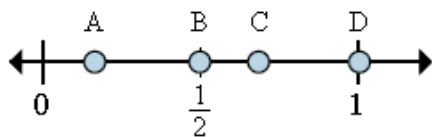
Determine which letter best shows the location of the fraction.



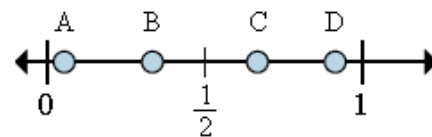
- 1) Which letter best shows $\frac{2}{2}$?
- 2) Which letter best shows $\frac{1}{2}$?



- 3) Which letter best shows $\frac{3}{4}$?
- 4) Which letter best shows $\frac{2}{4}$?



- 5) Which letter best shows $\frac{3}{6}$?
- 6) Which letter best shows $\frac{1}{6}$?



- 7) Which letter best shows $\frac{2}{3}$?
- 8) Which letter best shows $\frac{1}{3}$?

Convert these decimals into fractions in their lowest terms.

$0.2 =$

$0.5 =$

$0.03 =$

$0.35 =$

$0.3 =$

$0.6 =$

$0.9 =$



Convert these fractions into decimals (round off to the nearest hundredth)

$\frac{1}{7} =$

$\frac{1}{13} =$

$\frac{1}{6} =$

$\frac{9}{25} =$

$\frac{2}{26} =$

$\frac{24}{150} =$

$\frac{45}{120} =$

$\frac{6}{7} =$

$\frac{50}{170} =$

$\frac{4}{19} =$



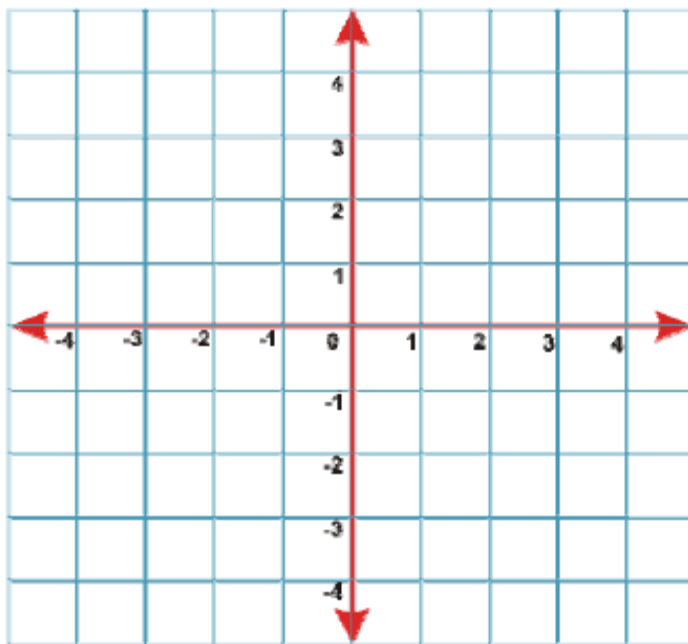
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Represent the statements with integers.





- 1 Forty-eight feet below sea level.
- 2 The opposite of -768
- 3 A pay cut of \$14,000.
- 4 The stock market went up 1,400 points today.
- 5 The football player had a 60 yard gain on the play.
- 6 60° below zero.

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Plot 5 ordered pairs on each graph



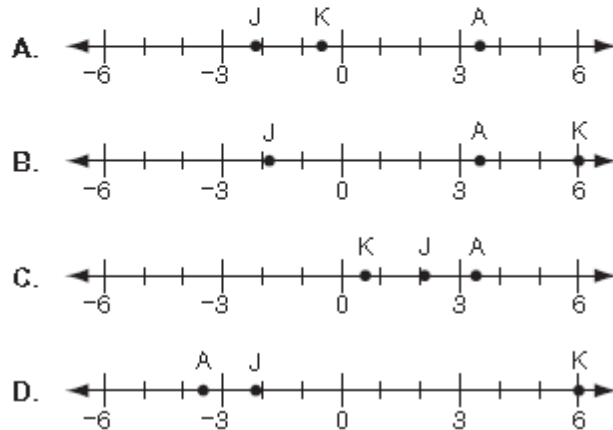
- A $(2,2)$
 - B $(-2,1)$
 - C $(4,1)$
 - D $(1,-3)$
 - E $(-3,0)$
-

- 1) Which integer is greater than -5 ?
- a) -7 b) -1 c) -9 d) -11
- 2) How many integers are there between -8 and 2 ?
- a) 7 b) 4 c) 0 d) 9
- 3) What is the opposite value of the integer 6 ?
- a) -6 b) 5 c) 6 d) -4
- 4) Identify the integer that is less than -3 .
- a) 0 b) -1 c) -4 d) 2
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- 5) Which of the following integers is greater than -1 and lesser than 7 ?
- a) -9 b) 5 c) -5 d) 8
- 6) How many pairs of opposite integers are there between -4 and 5 ?
- a) 3 b) 8 c) 2 d) 6
- 7) The following data shows the changes in temperatures across various cities from morning to noon. Which city recorded the maximum temperature?
- a)  20°C
Atlanta
- b)  13°C
Chicago
- c)  12°C
Boston
- d)  25°C
Houston

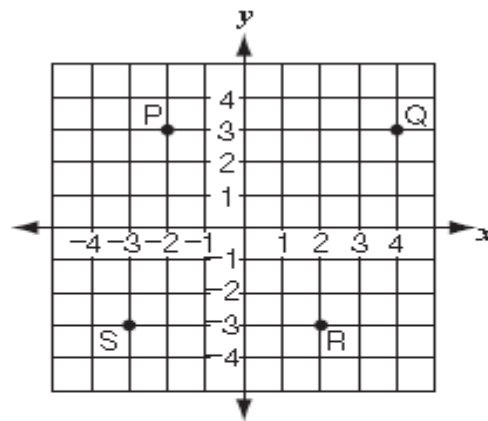
16. Amanda, Javier, and Kris each measure the change in their hair lengths over a year.

- Amanda's hair length (A) is 3.4 inches longer than last year.
- Javier's hair length (J) is 2.1 inches shorter than last year.
- Kris's hair length (K) is 0.6 inches shorter than last year.

Which number line **best** represents the changes in hair lengths of each person using points A, J, and K?



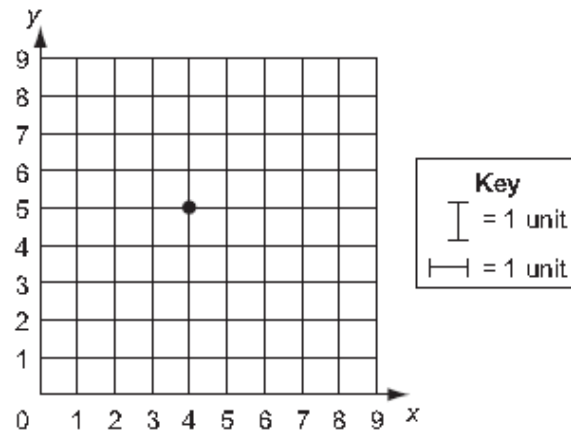
18. Galina plotted the points below on a coordinate grid.



Which two points are exactly 6 units apart on the coordinate grid?

- A. P and Q
- B. Q and R
- C. R and S
- D. S and P

23. A construction worker is using the coordinate grid below to show the length of a wall inside a house.

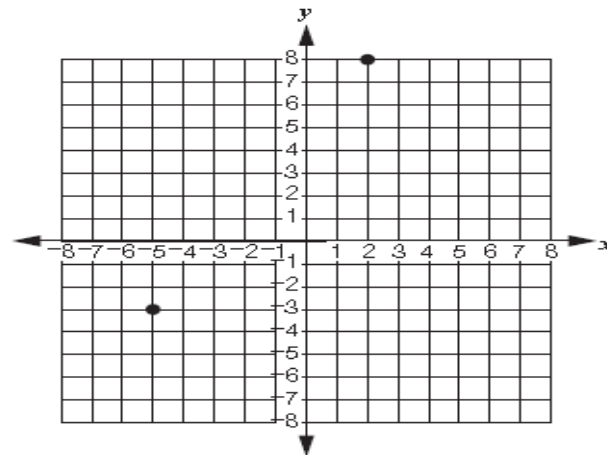


One end of the wall will be at (4, 5). The wall will be 4 units long. Which point could be the location of the other end of the wall?

- A. (0, 5)
- B. (4, 4)
- C. (5, 0)
- D. (8, 9)

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41. Two of the vertices of a rectangle are plotted on the coordinate grid below.



Which ordered pairs could be the other two vertices of the rectangle?

- A. (2, -3) and (-5, 8)
 - B. (2, -5) and (-3, 8)
 - C. (8, -3) and (-5, 2)
 - D. (8, -5) and (-3, 2)
-

Calculate and fill in the boxes

$$\begin{array}{r} \square \square \\ 3 \overline{) 75} \\ \square \\ \hline \square \square \\ \square \square \\ \hline 0 \end{array}$$

$$\begin{array}{r} \square \square \\ 4 \overline{) 68} \\ \square \\ \hline \square \square \\ \square \square \\ \hline 0 \end{array}$$

$$\begin{array}{r} \square \square \\ 5 \overline{) 85} \\ \square \\ \hline \square \square \\ \square \square \\ \hline 0 \end{array}$$

$$\begin{array}{r} \square \square \\ 3 \overline{) 99} \\ \square \\ \hline \square \square \\ \square \square \\ \hline 0 \end{array}$$

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Calculate and fill in the boxes

$$\begin{array}{r} \square \square \\ 6 \overline{) 82} \\ \square \\ \hline \square \square \\ \square \square \\ \hline R \square \end{array}$$

$$\begin{array}{r} \square \square \\ 3 \overline{) 44} \\ \square \\ \hline \square \square \\ \square \square \\ \hline R \square \end{array}$$

$$\begin{array}{r} \square \square \\ 5 \overline{) 56} \\ \square \\ \hline \square \square \\ \square \square \\ \hline R \square \end{array}$$

$$\begin{array}{r} \square \square \\ 2 \overline{) 45} \\ \square \\ \hline \square \square \\ \square \square \\ \hline R \square \end{array}$$
