



**THIRD SPACE  
LEARNING**

# Type of Graphs Check for Understanding

A 10 question retrieval quiz for  
students in grades 5, 6, 7 and  
8.

**Grades 5 to 8**

## Questions

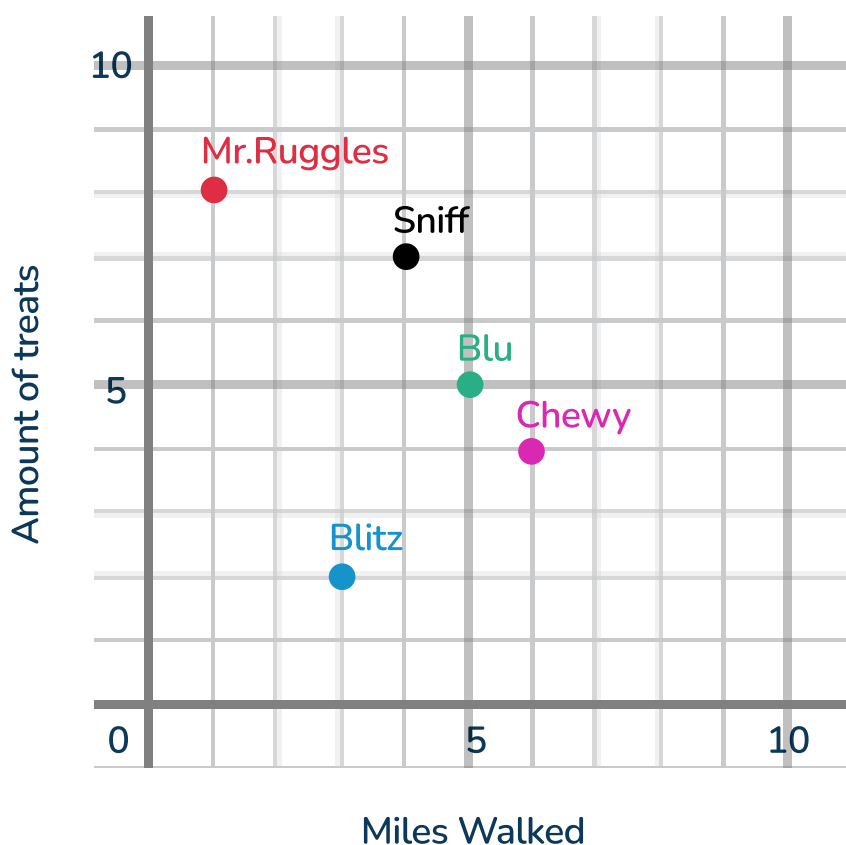
Name: .....

Class: .....

Date: .....

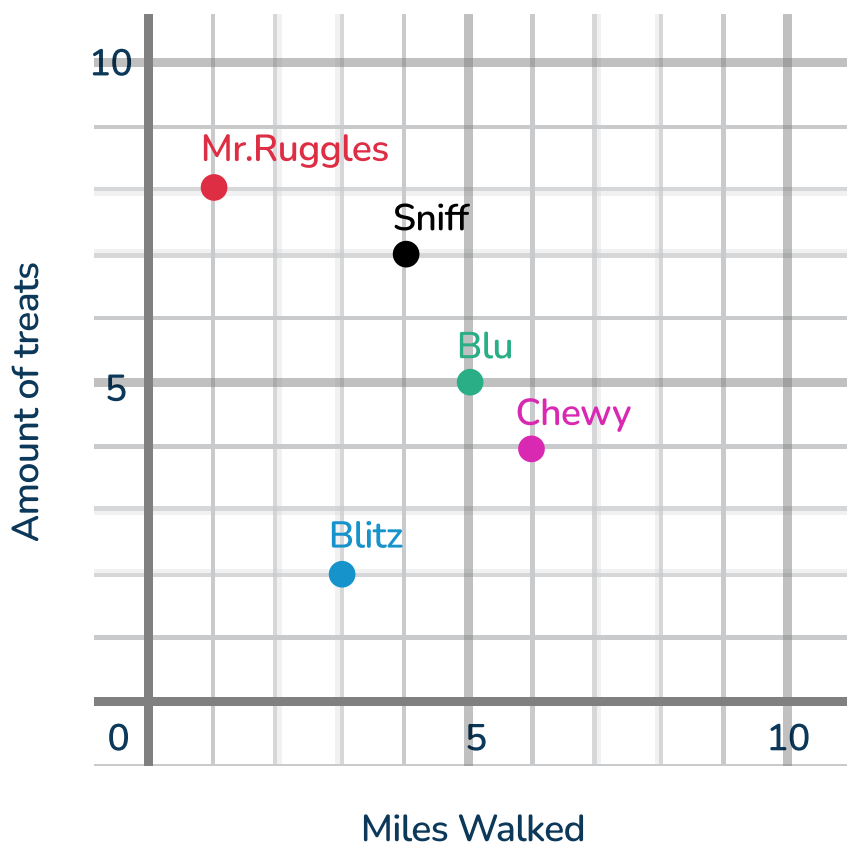
Score: .....

- 1 Mikey has started his own dog walking business and already has five dogs to walk. The graph below shows the number of miles he walks each of the dogs and the number of treats he gives each of the dogs on the walks. Which dog eats the most amount of treats on a walk?



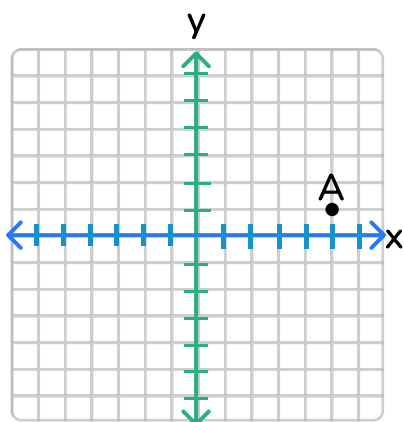
Answer

- 2 Using the graph below, what does the x-coordinate represented by Chewy mean?



Answer

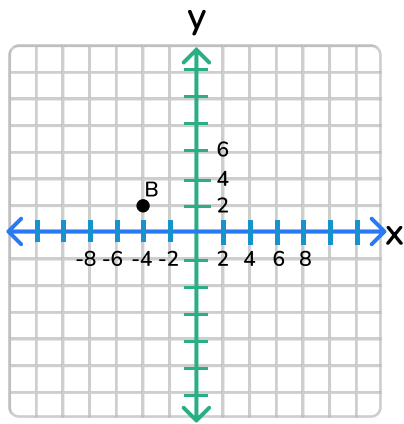
- 3 Using the graph below, what is the ordered pair of point A?



Answer

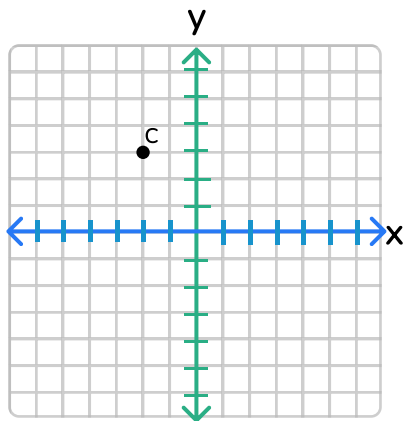
## Check for Understanding | 5th to 8th Grade | Type of Graphs

- 4 Using the graph below, what is the ordered pair of point B?



Answer

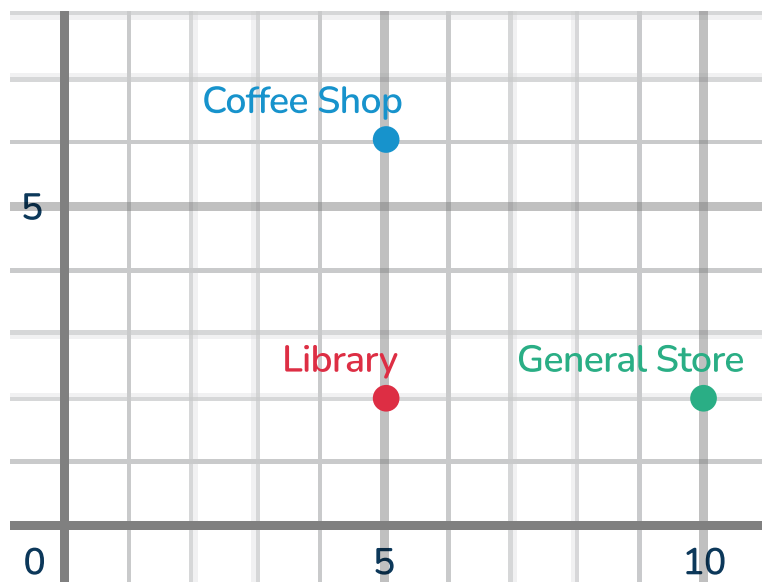
- 5 Using the graph below, which quadrant is point C in?



Answer



- 6 The graph below represents a map where each unit is a city block. How many city blocks are there between the library and the coffee shop?

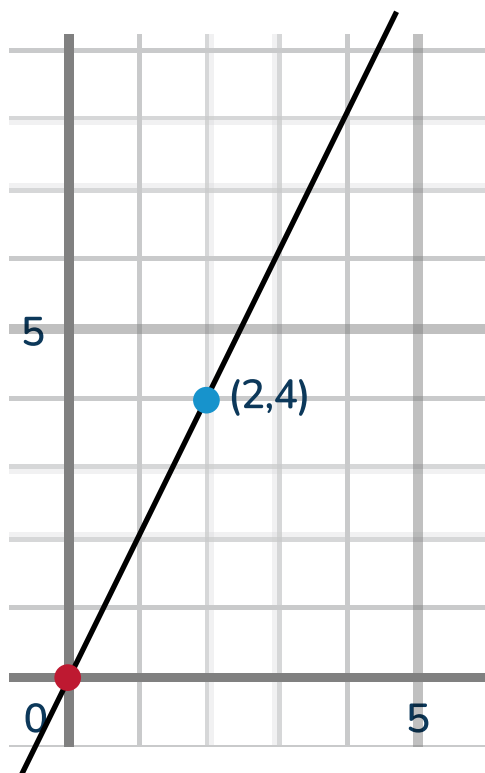


Answer

- 7 A taxi service charges a flat fee of \$8 per ride plus an additional \$2 per mile. The equation  $C = 2m + 8$  models this situation, where  $C$  represents cost and  $m$  represents miles. Which one is the independent variable?

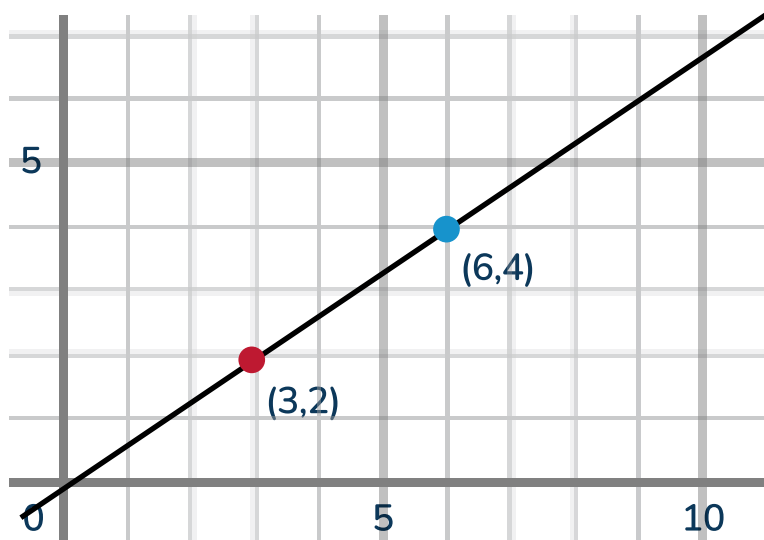
Answer

8 Does the graph show a proportional relationship? Why or why not?



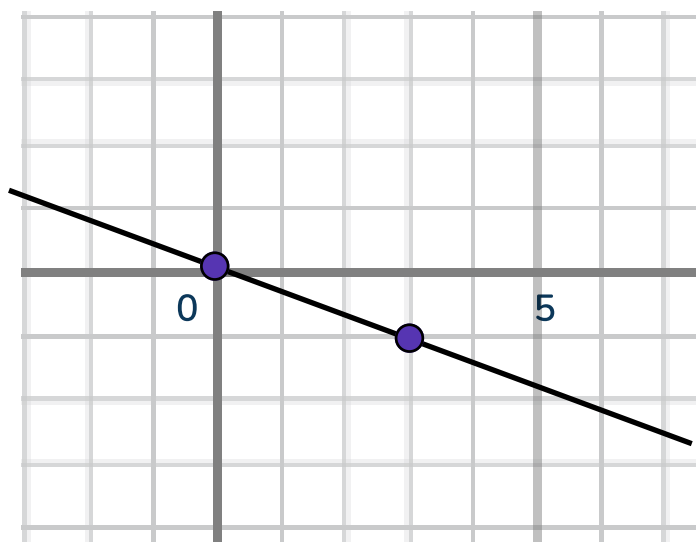
Answer

- 9 The graph below represents a direct variation. What is the constant of variation?



Answer

- 10 What is the y-intercept and the rate of change of the line represented in this graph?



y-intercept

Rate of change

## Answers

Question number	Question	Answers	Standard
1	Mikey has started his own dog walking business and already has five dogs to walk. The graph below shows the number of miles he walks each of the dogs and the number of treats he gives each of the dogs on the walks. Which dog eats the most amount of treats on a walk?	Mr. Ruggles - 8 treats	5.G.A.2
2	Using the graph below, what does the x - coordinate represented by Chewy mean?	x - coordinate means that Chewy walked 6 miles on the walk	5.G.A.2
3	Using the graph below, what is the ordered pair of point A?	(5,1)	6.NS.C.8
4	Using the graph below, what is the ordered pair of point B?	(-4, 2)	6.NS.C.8
5	Using the graph below, which quadrant is point C in?	Quadrant II	6.NS.C.8
6	The graph below represents a map where each unit is a city block. How many city blocks are there between the library and the coffee shop?	There are 4 city blocks between the library and the coffee shop.	6.EE.C.9
7	A taxi service charges a flat fee of \$8 per ride plus an additional \$2 per mile. The equation $C = 2m + 8$ models this situation, where $C$ represents cost and $m$ represents miles. Which one is the independent variable?	$m$ which represents miles is the independent variable	6.EE.C.9

## Check for Understanding | 5th to 8th Grade | Type of Graphs | Answers




Question number	Question	Answers	Standard
8	Does the graph show a proportional relationship? Why or why not?	Yes, it is a proportional relationship because it goes through the origin	7.RP.A.2.b
9	The graph below represents a direct variation. What is the constant of variation ?	The constant of variation is $\frac{2}{3}$	7.RP.A.2.b 8.EE.B.5
10	What is the y-intercept and the rate of change of the line represented in this graph?	y-intercept: 0 or (0,0)  Rate of change (slope): $-\frac{1}{3}$	8.EE.B.5

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