



**THIRD SPACE
LEARNING**

Coordinate Plane Worksheet

Algebra

Grades 6 to 8

Skill Questions

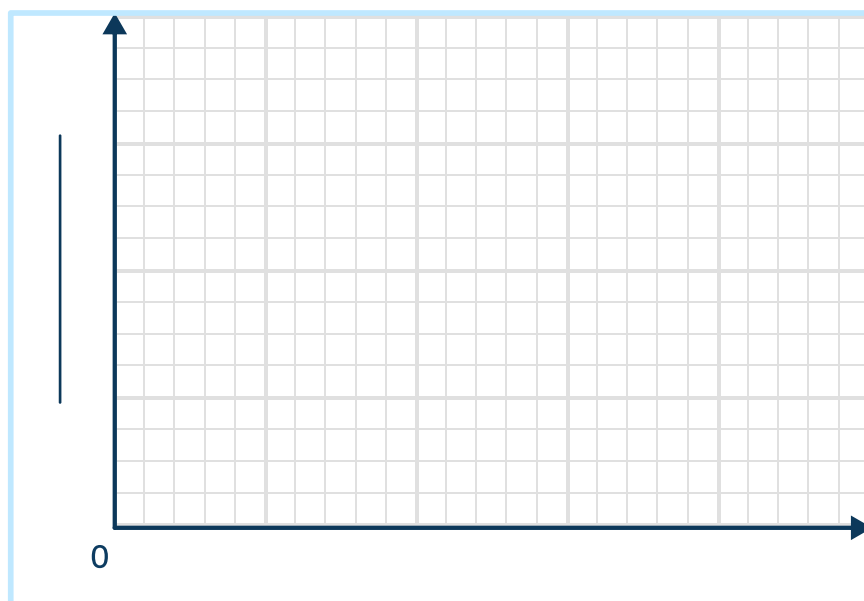
Name:

Date:

1

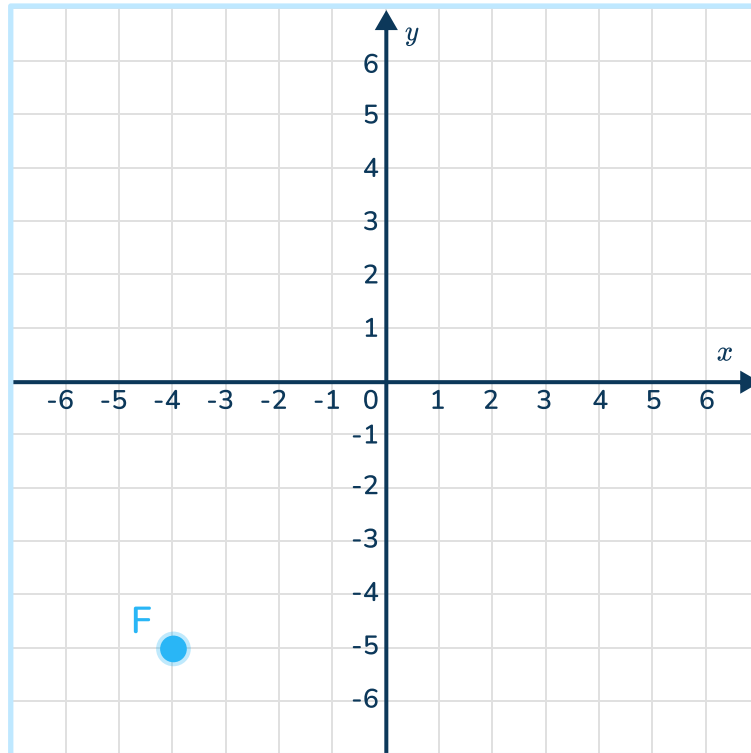
Money spent (\$)	Frequency
0 to < 10	6
10 to < 20	3
20 to < 30	1
30 to < 40	4
40 to < 50	7

Construct a histogram axis for the data in the table.



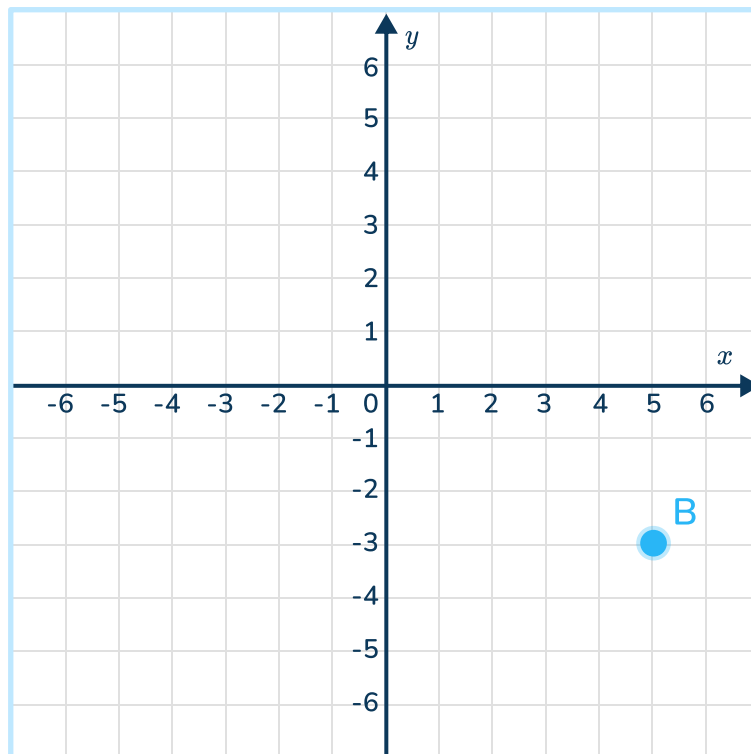
Coordinate Plane Worksheet | Grades 4 to 5

2 What are the coordinates of point F?



Answer

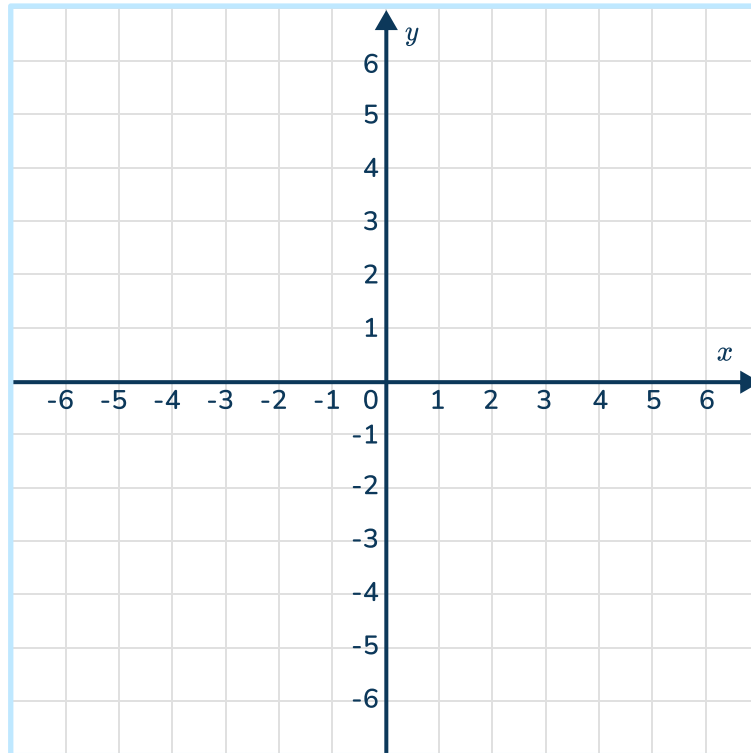
3 Give the coordinates of Point B and name the quadrant.



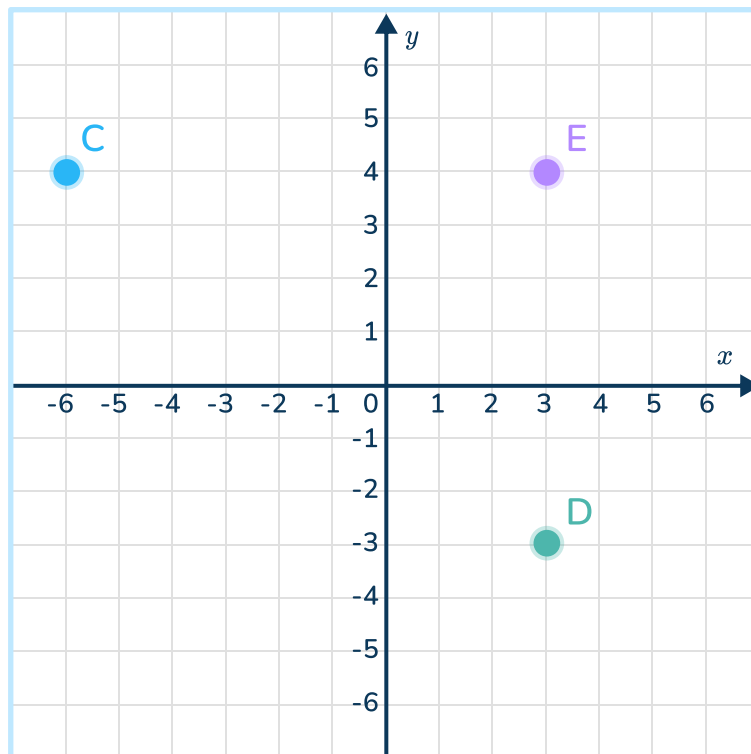
Answer

Coordinate Plane Worksheet | Grades 4 to 5

- 4 Plot the point $(-6, 3)$.

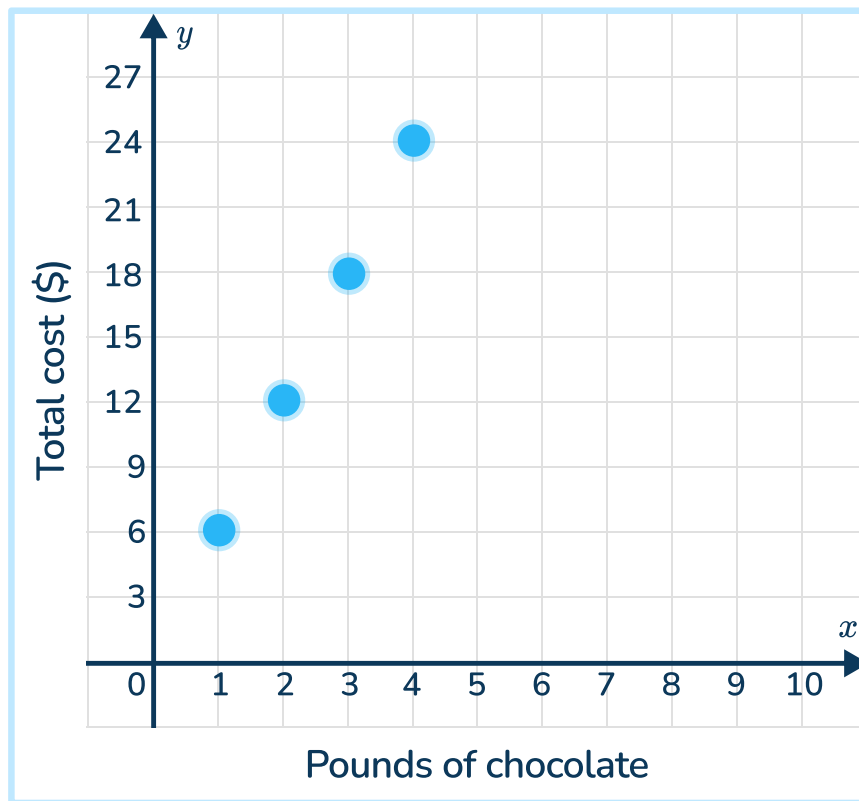


- 5 What is the distance from Point C to Point E?



Answer

6



Identify the...

a) independent variable

Answer

b) dependent variable

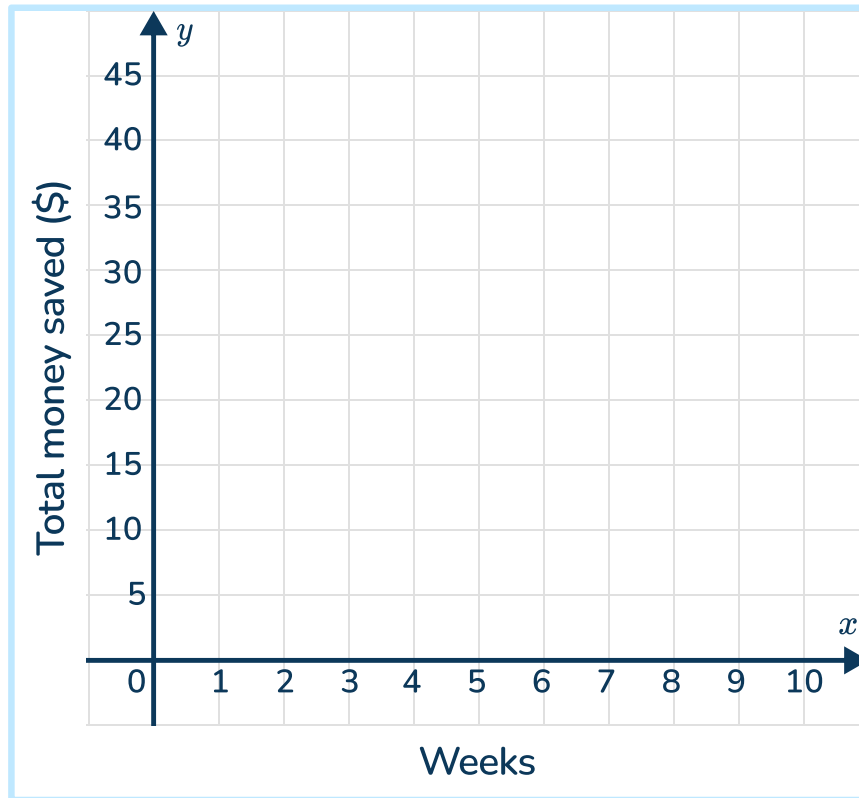
Answer

c) unit rate

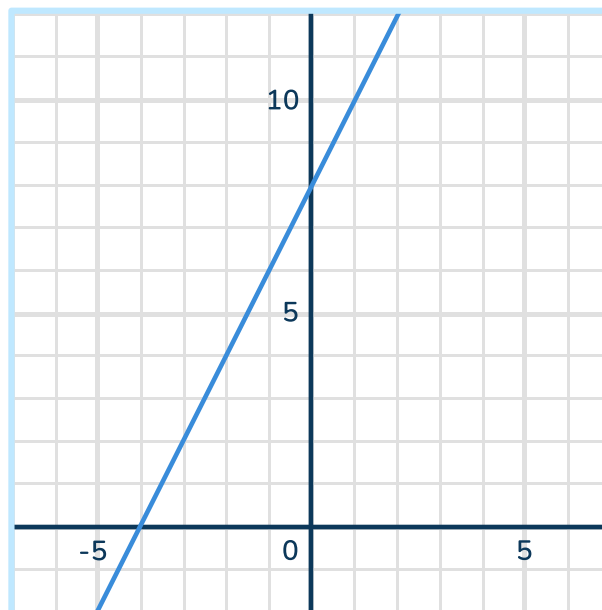
Answer

Coordinate Plane Worksheet | Grades 4 to 5

- 7 Akiva is saving \$5 each week to buy a new book that costs \$35. Show the total Akiva has saved after x weeks on the graph.

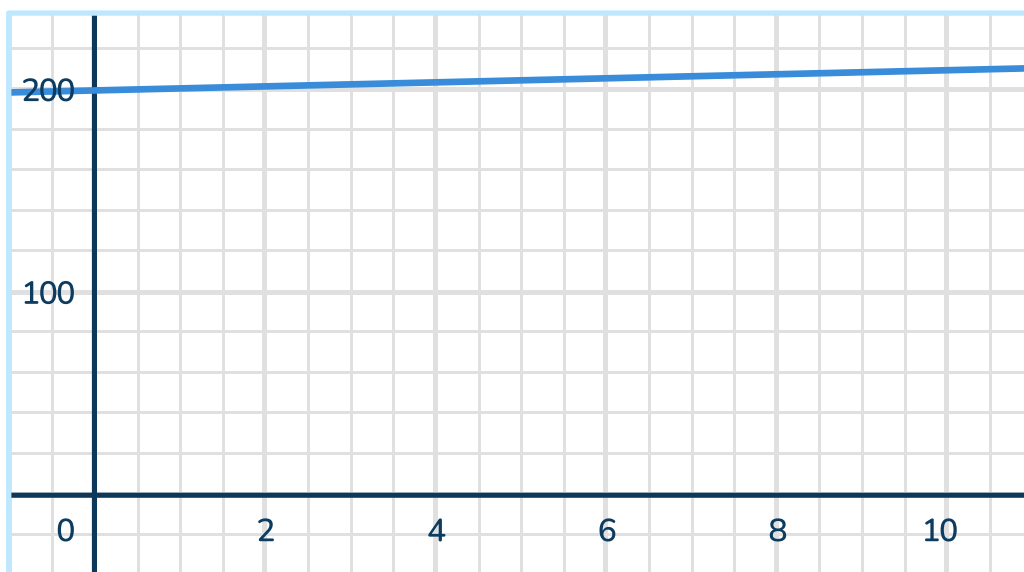


- 8 What is the slope of the line?



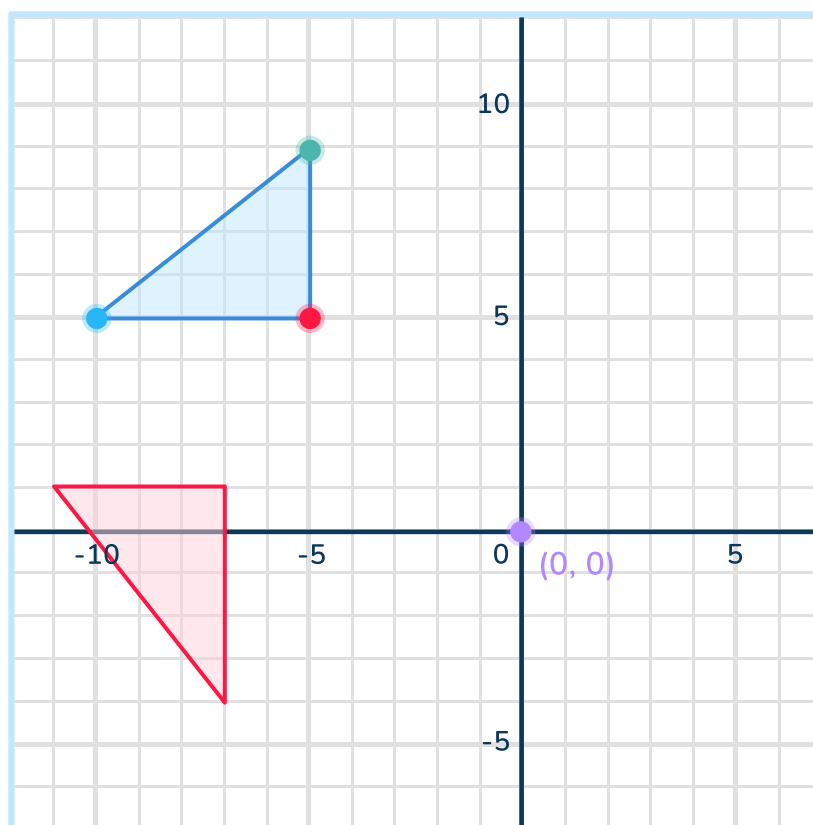
Answer

- 9 Ben invests \$200. The graph shows how much his investment grows over 5 years. What does the y -intercept represent?



Answer

- 10 The blue triangle is the original. The red triangle is the image. Identify the transformation.



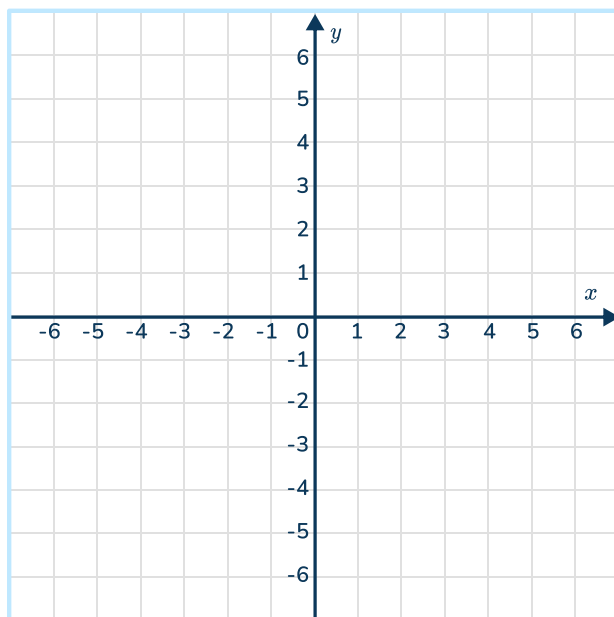
Answer

Applied Questions

11 Clues about Point R...

- It is not in Quadrant II
- The x coordinate is the opposite of the y coordinate
- The absolute value of both coordinates is even and prime

Plot Point R on the coordinate plane below.



12

Cups of uncooked rice (u)	3	5	11	15
Cups of cooked rice (c)	9	15	33	45

Decide if each statement is true or false.

a) Every cup of uncooked rice, makes 3 cups of cooked rice.

Answer

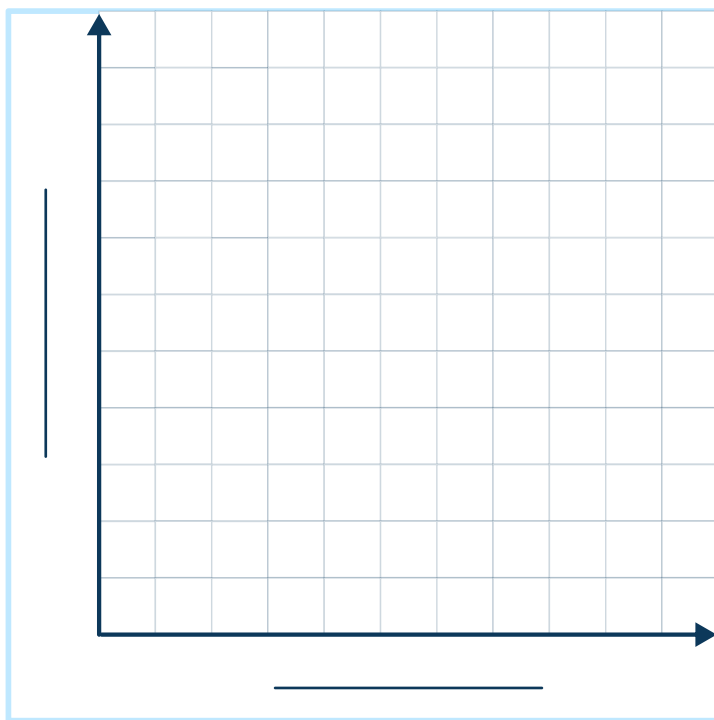
b) $\frac{1}{3}c = u$ shows the relationship between c and u .

Answer

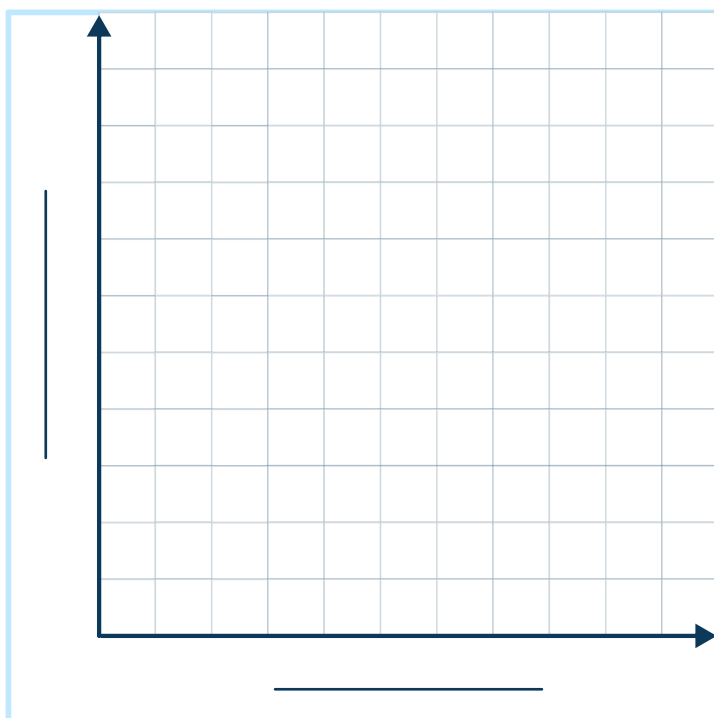
c) The point (6, 18) is on the line of the equation shown in b.

Answer

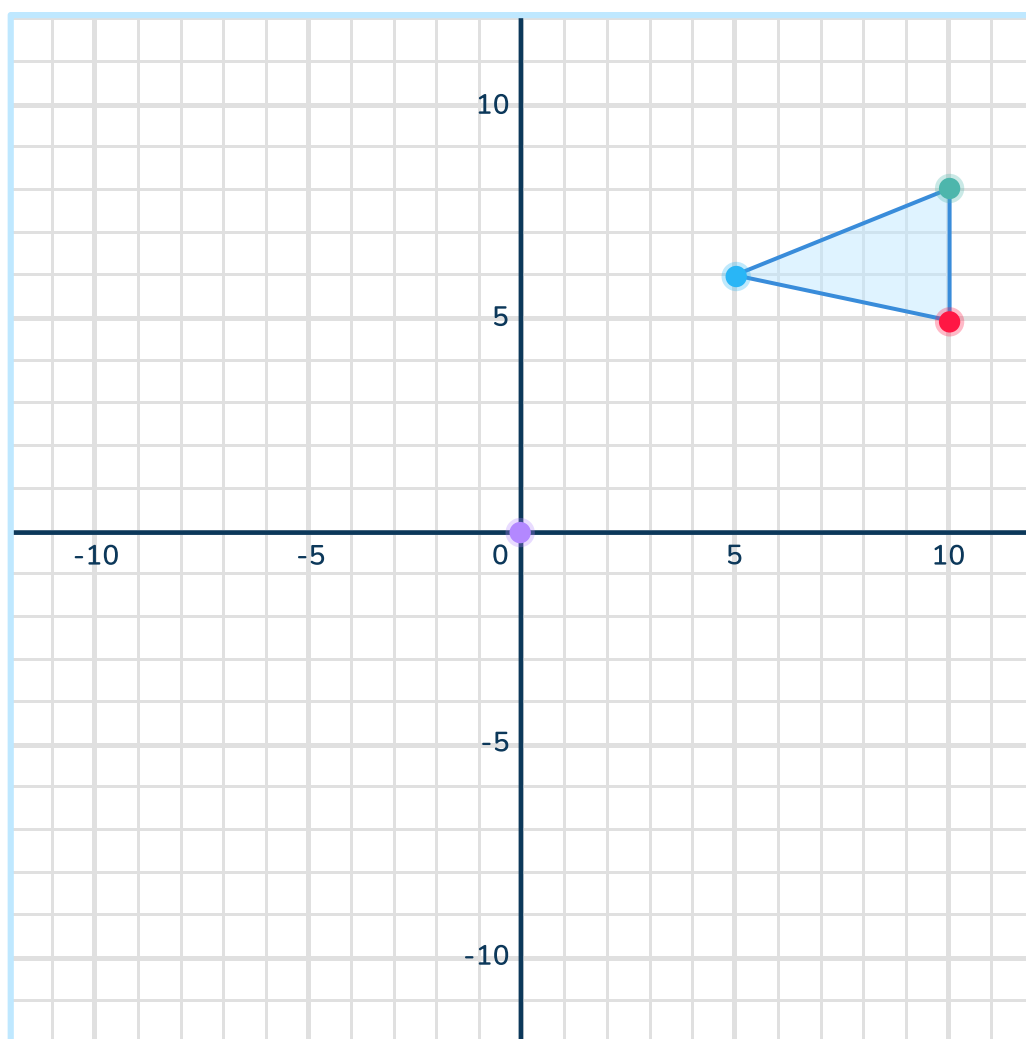
- 13 The equation $20d = h$, calculates the total pounds of hay, h , a horse needs for d days. Graph the equation.



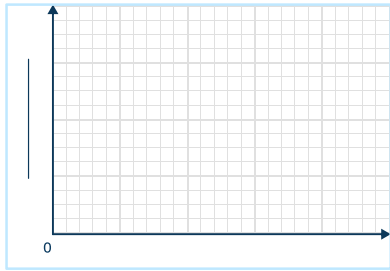
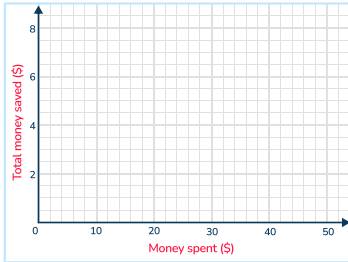
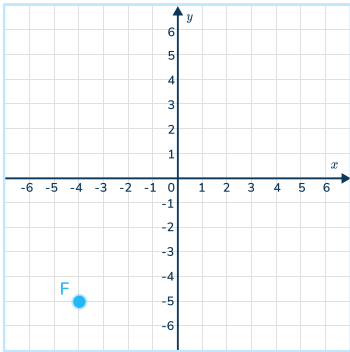
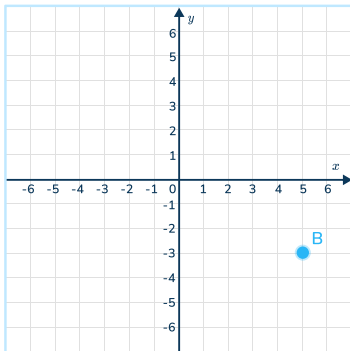
- 14 Kairo pays \$97 to join a new phone plan. Then every month, Kairo pays \$34. Show a graph of how much money, in total, Kairo will pay for the first 6 months.



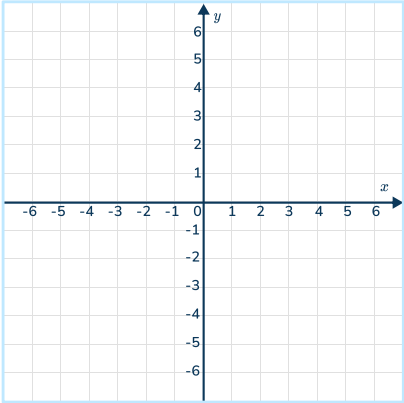
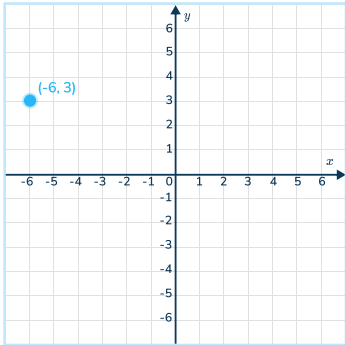
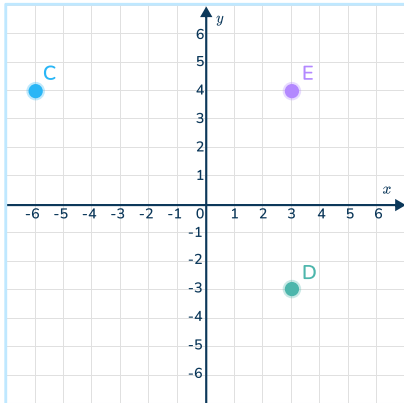
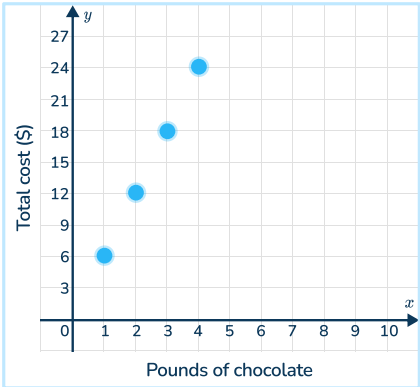
- 15 Rotate the figure 270 degrees clockwise about the origin. Then translate it 2 units to the left. Label the coordinates of the image's vertices.



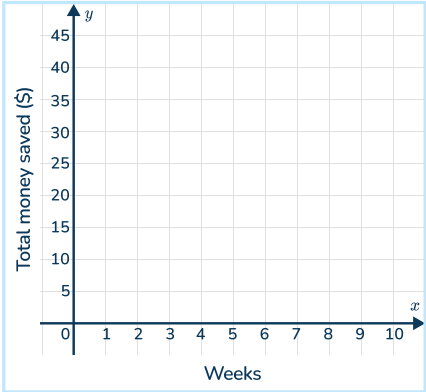
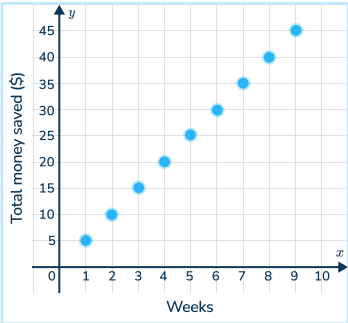
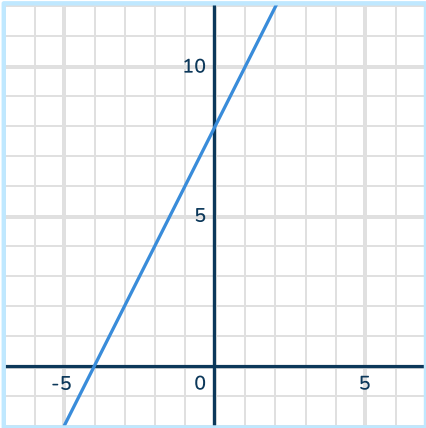
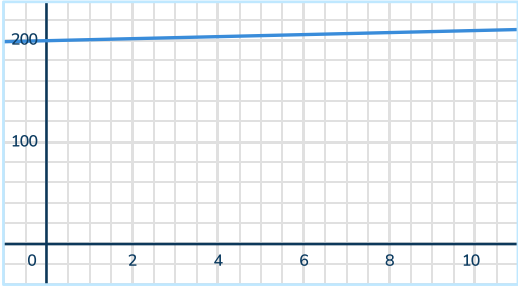
Answers

Question number	Question	Answers	Standard												
1	<table border="1"><thead><tr><th>Money spent (\$)</th><th>Frequency</th></tr></thead><tbody><tr><td>0 to < 10</td><td>6</td></tr><tr><td>10 to < 20</td><td>3</td></tr><tr><td>20 to < 30</td><td>1</td></tr><tr><td>30 to < 40</td><td>4</td></tr><tr><td>40 to < 50</td><td>7</td></tr></tbody></table> <p>Construct a histogram axis for the data in the table.</p> 	Money spent (\$)	Frequency	0 to < 10	6	10 to < 20	3	20 to < 30	1	30 to < 40	4	40 to < 50	7		6.SP.B.4
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2	<p>What are the coordinates of point F?</p> 	$(-4, -5)$	6.NS.C.6c												
3	<p>Give the coordinates of Point B and name the quadrant.</p> 	$(5, -3)$ in Quadrant IV	6.NS.C.6c												

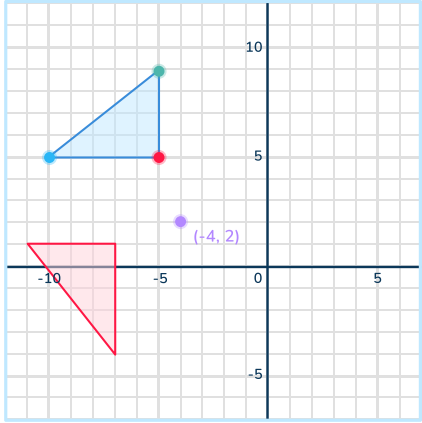
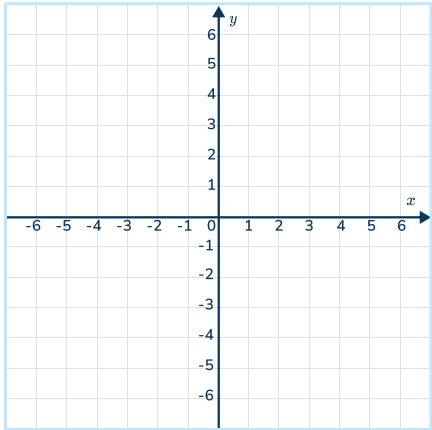
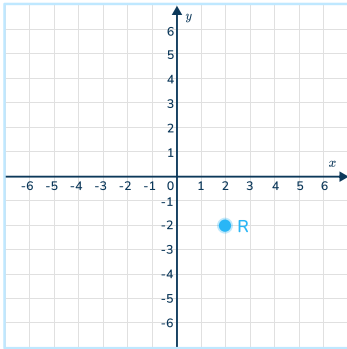
Coordinate Plane Worksheet | Grades 4 to 5 | Answers

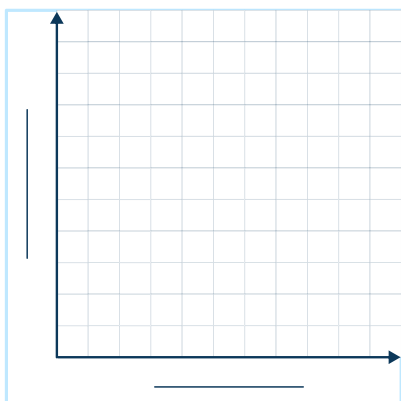
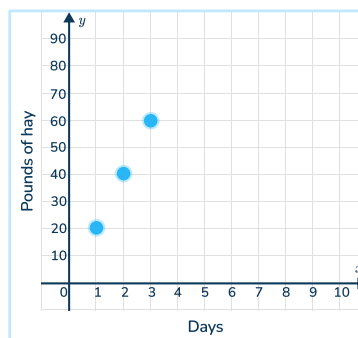
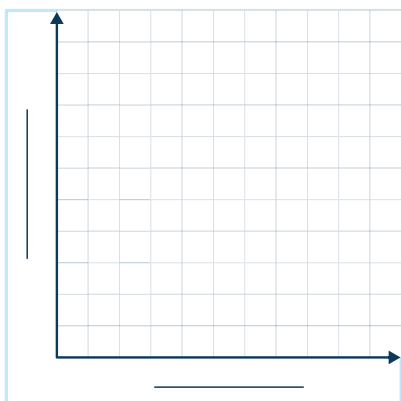
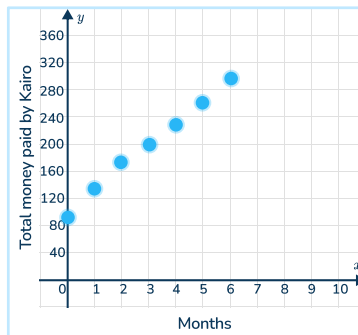
Question number	Question	Answers	Standard
4	<p>Plot the point $(-6, 3)$.</p> 		6.NS.C.6c
5	<p>What is the distance from Point C to Point E?</p> 	9 units	6.G.A.3
6	 <p>Identify the...</p> <p>a) independent variable</p> <p>b) dependent variable</p> <p>c) unit rate</p>	<p>a) pounds of chocolate</p> <p>b) total cost</p> <p>c) \$6</p>	6.EE.C.9

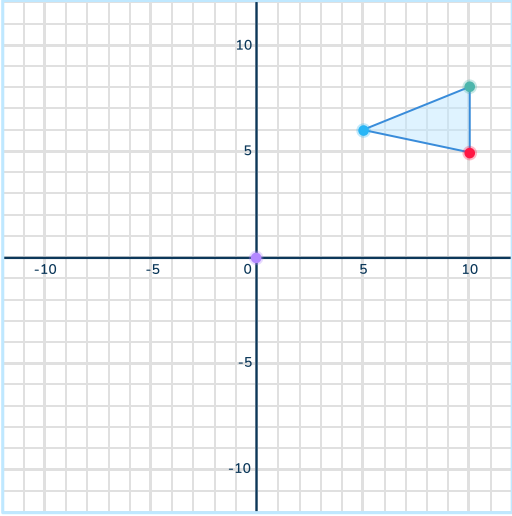
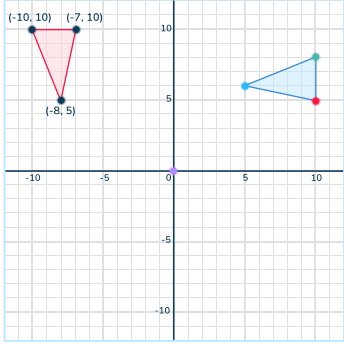
Coordinate Plane Worksheet | Grades 4 to 5 | Answers

Question number	Question	Answers	Standard
7	<p>Akiva is saving \$5 each week to buy a new book that costs \$35. Show the total Akiva has saved after x weeks on the graph.</p> 		6.EE.C.9
8	<p>What is the slope of the line?</p> 	2	8.EE.B.6, 8.F.B.4
9	<p>Ben invests \$200. The graph shows how much his investment grows over 5 years. What does the y-intercept represent?</p> 	The original money Ben invested.	8.EE.B.6, 8.F.B.4

Coordinate Plane Worksheet | Grades 4 to 5 | Answers

Question number	Question	Answers	Standard
10	<p>The shaded triangle is the original. The outlined triangle is the image. Identify the transformation.</p> 	Rotated 90 degrees about the point $(-4, 2)$	8.G.A.3
11	<p>Clues about Point R...</p> <ul style="list-style-type: none"> • It is not in Quadrant II • The x coordinate is the opposite of the y coordinate • The absolute value of both coordinates is even and prime <p>Plot Point R on the coordinate plane below.</p> 		6.NS.C.6c

Question number	Question	Answers	Standard										
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15	<p>Rotate the figure 270 clockwise degrees about the origin. Then translate it 2 units to the left. Label the coordinates of the image's vertices.</p> 		8.G.A.3

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