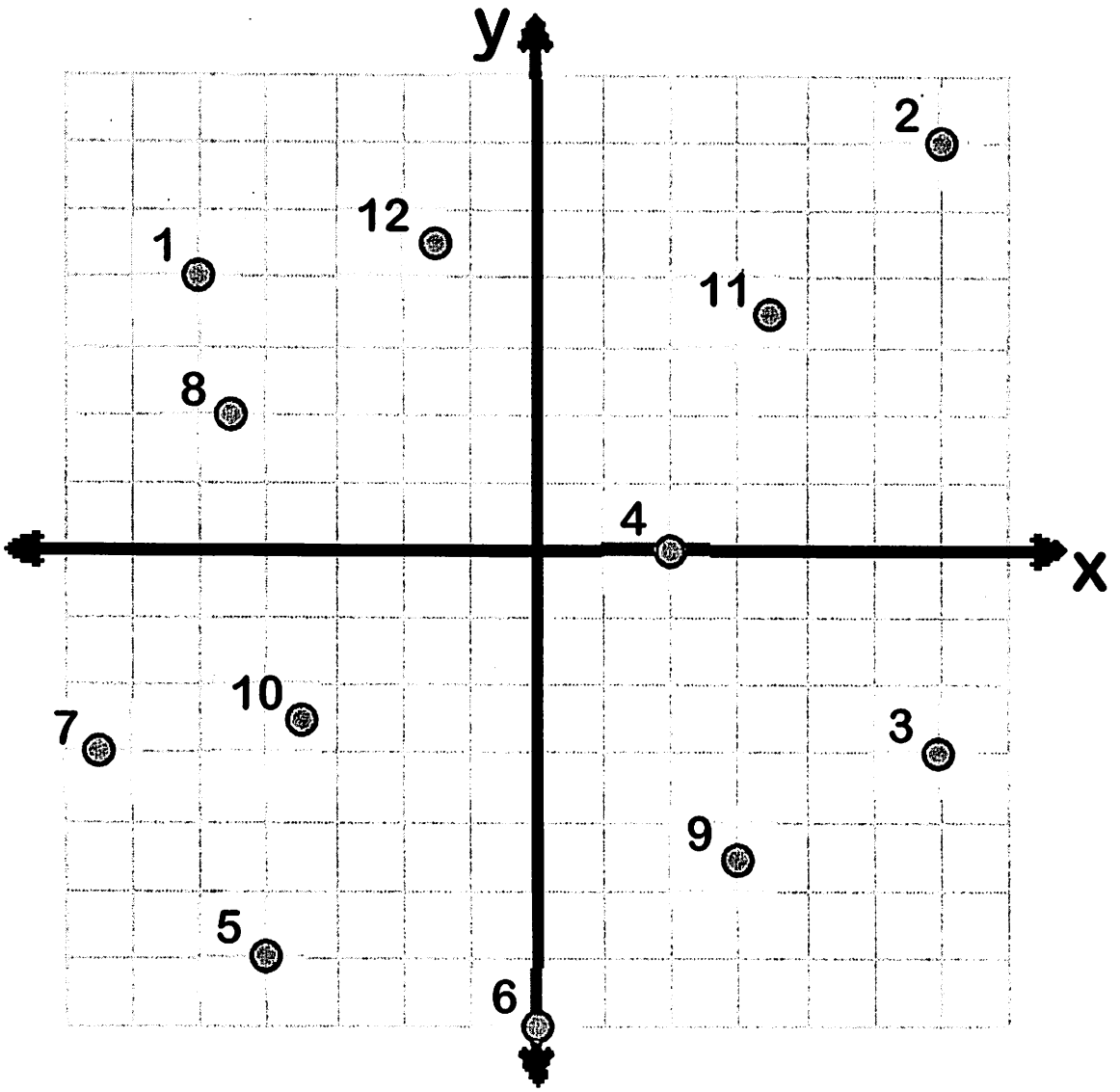
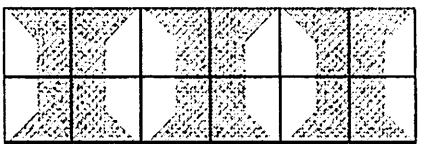
Graphing Points

Teacher Check

Match the points on the graph to their coordinates. <u>Each box on the grid represents 1 unit.</u>



Answer Box .....

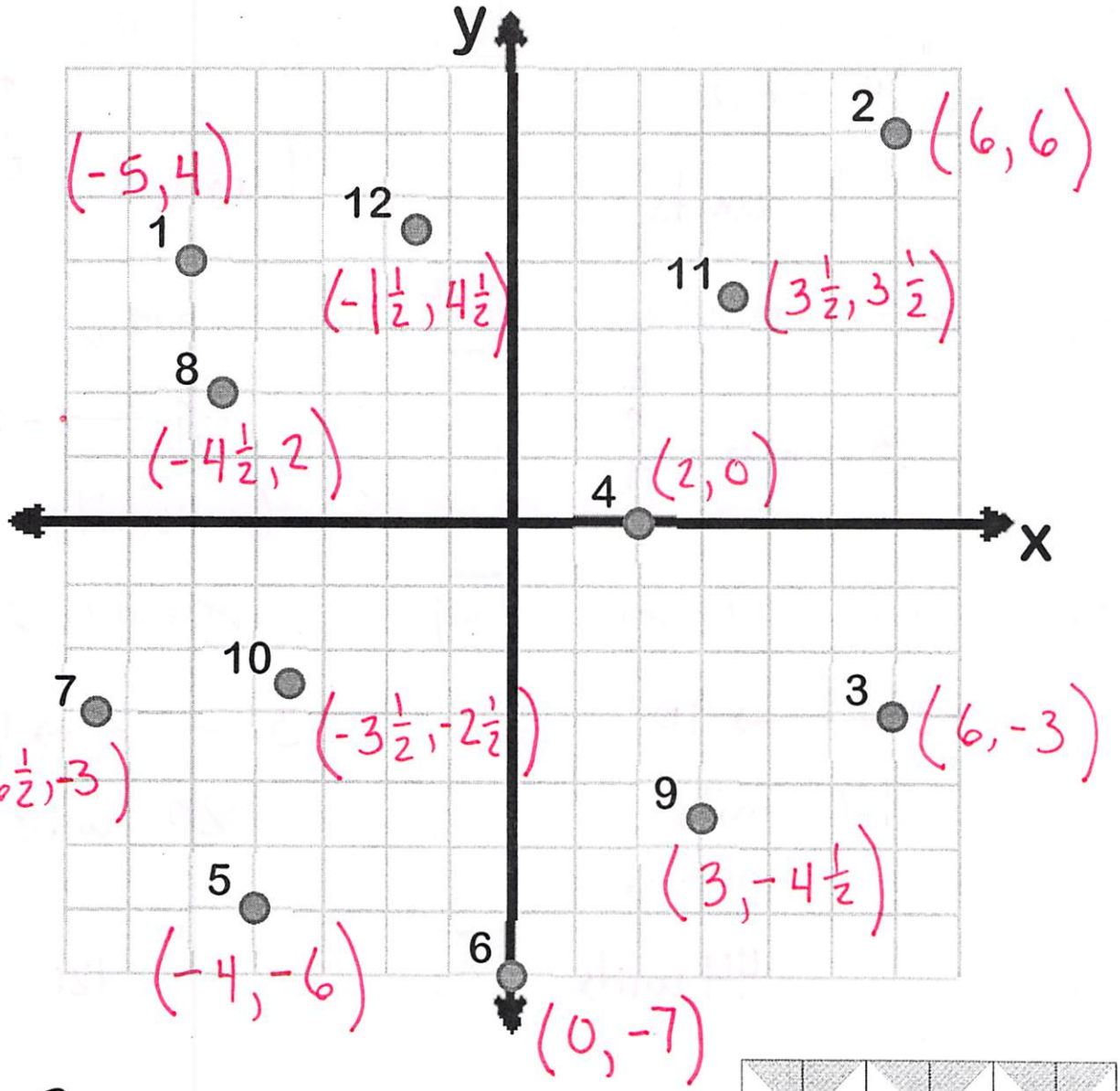


A	B	C	D	E	F
$(6,-3)$	$\left(3,-4\frac{1}{2}\right)$	$(2,0)$	$(-5,4)$	$(0,-7)$	$(6,6)$
G	**H**	**I**	**J**	**K**	**L**
$(-4,-6)$	$\left(3\frac{1}{2},3\frac{1}{2}\right)$	$\left(-6\frac{1}{2},-3\right)$	$\left(-3\frac{1}{2},-2\frac{1}{2}\right)$	$\left(-1\frac{1}{2},4\frac{1}{2}\right)$	$\left(-4\frac{1}{2},2\right)$

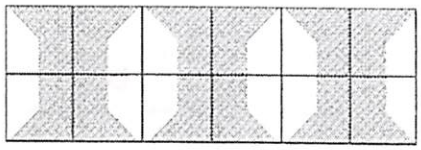
Graphing Points

Teacher Check

Match the points on the graph to their coordinates. Each box on the grid represents 1 unit.



Answer Box .....



A $(6,-3)$	**B** $\left(3,-4\frac{1}{2}\right)$	**C** $(2,0)$	**D** $(-5,4)$	**E** $(0,-7)$	**F** $(6,6)$
G $(-4,-6)$	**H** $\left(3\frac{1}{2},3\frac{1}{2}\right)$	**I** $\left(-6\frac{1}{2},-3\right)$	**J** $\left(-3\frac{1}{2},-2\frac{1}{2}\right)$	**K** $\left(-1\frac{1}{2},4\frac{1}{2}\right)$	**L** $\left(-4\frac{1}{2},2\right)$

Distance Between Points

Teacher Check

Find the Distance in units between the points.

1 $(4,5)$ **and** $(12,5)$

2 $(14,9)$ **and** $(14,0)$

3 $(2,-1)$ **and** $(2,2)$

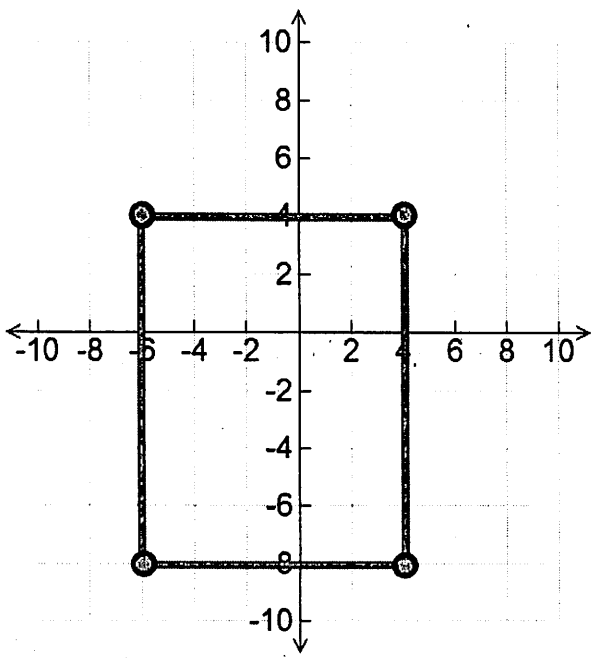
4 $(-8,-9)$ **and** $(-8,-15)$

5 $(10,6)$ **and** $(-7,6)$

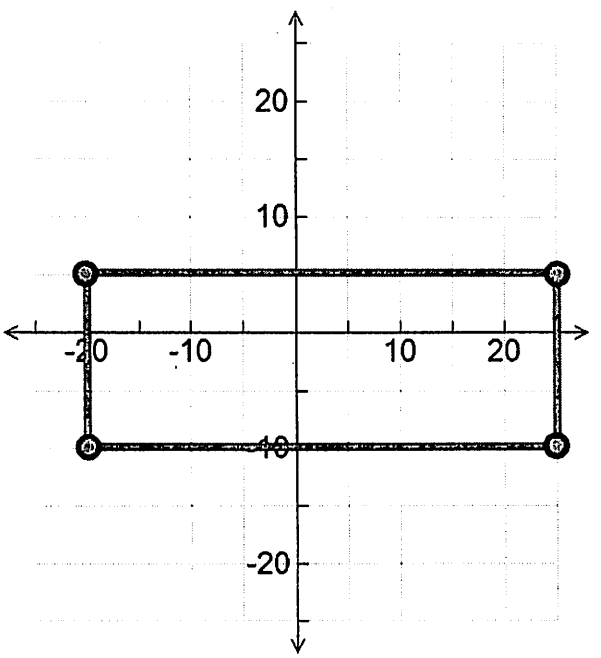
6 $(-3,8)$ **and** $(17,8)$

Find the Perimeter in units of the figure.

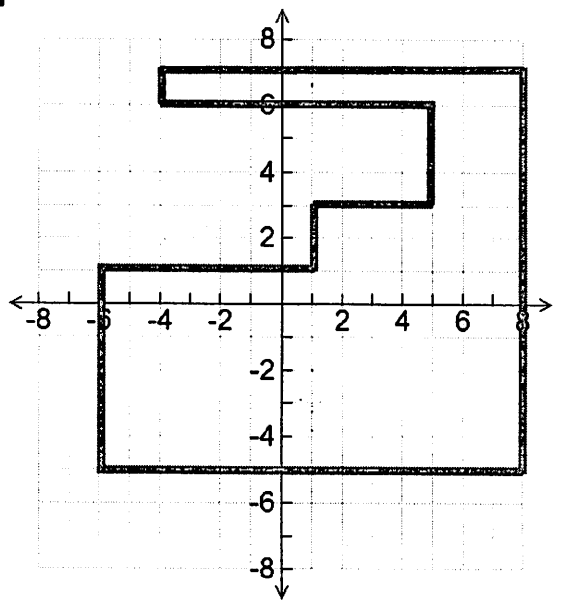
7



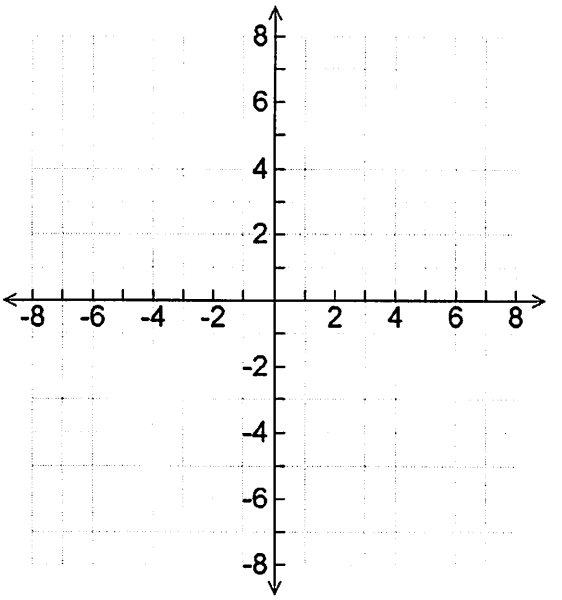
8



9 Find the Perimeter



10 Plot (–2, 3), (4, 3), (4, –4), and (–2, –4) then find the Perimeter.



Find the Distance in units between the points.

11 $(55, 9)$ **and** $(-27, 9)$

12 $(10, -82)$ **and** $(10, -45)$

Answer Box .....

A 82 units	**B** 17 units	**C** 20 units	**D** 9 units	**E** 26 units	**F** 44 units
G 3 units	**H** 70 units	**I** 37 units	**J** 120 units	**K** 6 units	**L** 8 units

Distance Between Points

Teacher Check

Find the Distance in units between the points.

1 $(4, 5)$ and $(12, 5)$

4 → 12

8 units

2 $(14, 9)$ and $(14, 0)$

9 ↑ 0

9 units

3 $(2, -1)$ and $(2, 2)$

2 ↑ -1

3 units

4 $(-8, -9)$ and $(-8, -15)$

-9 → -15

6 units

5 $(10, 6)$ and $(-7, 6)$

-7 → 10

17 units

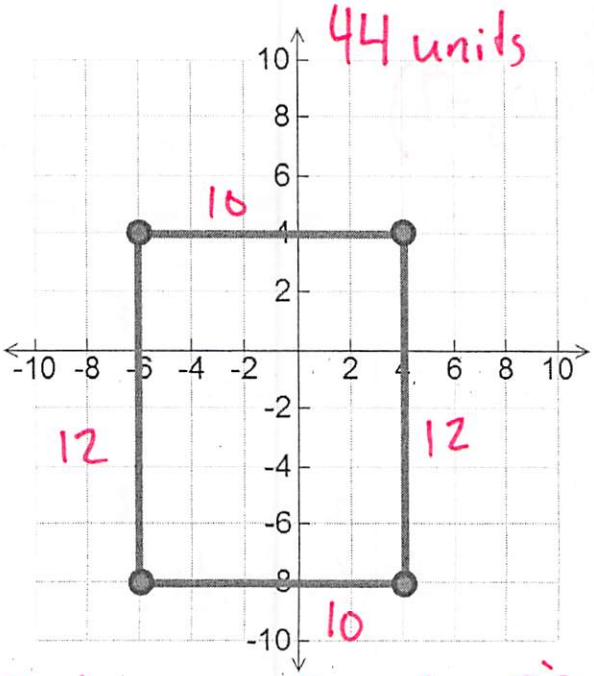
6 $(-3, 8)$ and $(17, 8)$

-3 → 17

20 units

Find the Perimeter in units of the figure.

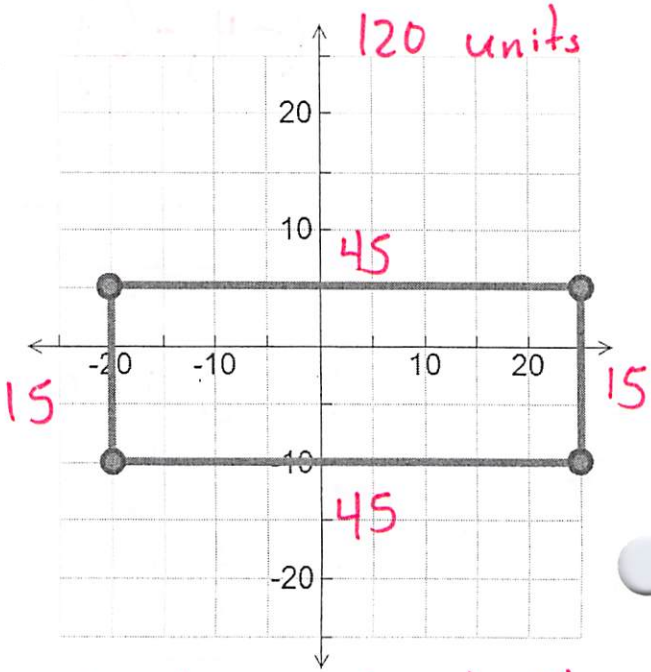
7



44 units

* Scale: counting by 2's

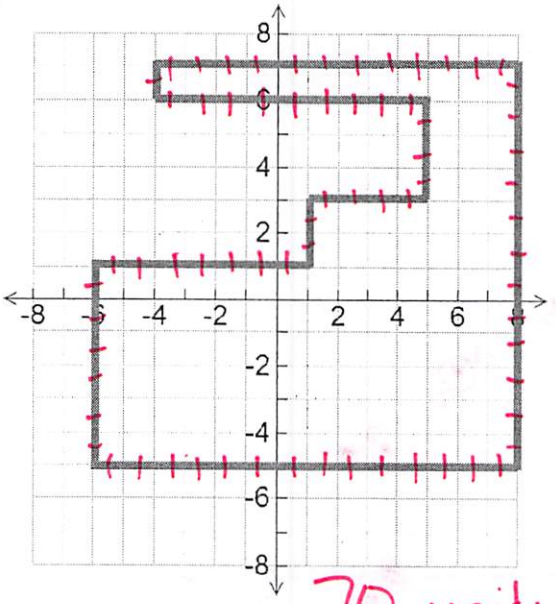
8



120 units

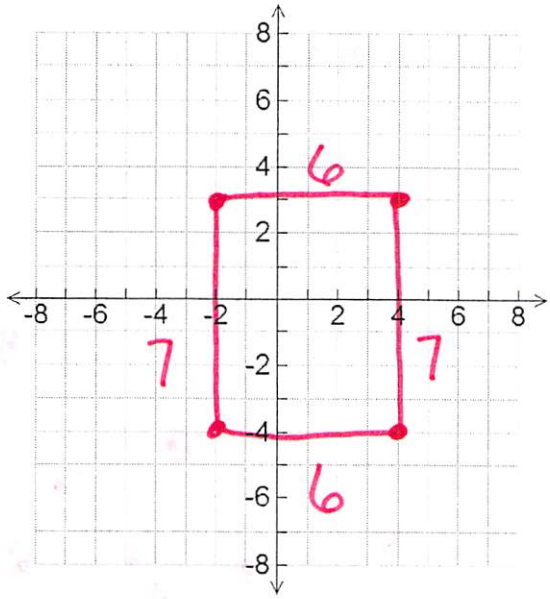
* Scale: Counting by 5's

9 Find the Perimeter



70 units

10 Plot (–2, 3), (4, 3), (4, –4), and (–2, –4) then find the Perimeter.



26 units

Find the Distance in units between the points.

11 $(55, 9)$ and $(-27, 9)$

-27 ⟶ 55

82 units

12 $(10, -82)$ and $(10, -45)$

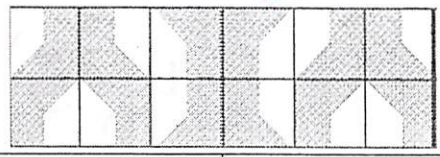
37 units

-45

↓

-82

Answer Box .....

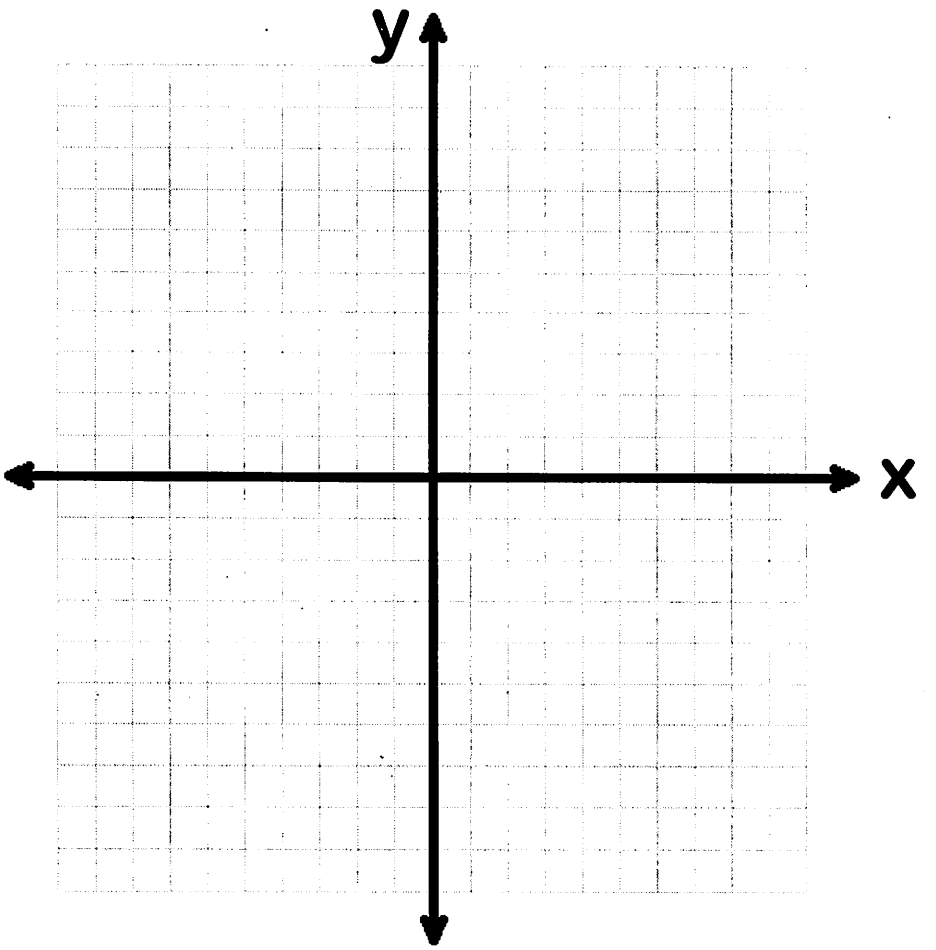


A	B	C	D	E	F
82 units	17 units	20 units	9 units	26 units	44 units
G	**H**	**I**	**J**	**K**	**L**
3 units	70 units	37 units	120 units	6 units	8 units

Reflecting and Translating Points

Teacher Check

Use the grid below to help you answer the questions. Each box on the grid represents 1 unit.



1 **Plot** $(-4, 2)$
Move Right 8 and Up 3
Where is the Image?

2 **Plot** $(6, 3)$
Reflect over the *x-axis*
Where is the Image?

3 **Plot** $(1, -5)$
Move Left 4 and Down 1
Where is the Image?

4 **Plot** $(9, 0)$
Reflect over the *y-axis*
Where is the Image?

5 Plot $(-2,-5)$
Reflect over the *x-axis*
Which quadrant is the Image in?

6 Plot $(8,-4)$
Move Left 12 and Up 2
Which quadrant is the Image in?

7 Plot $(-3,0)$
Move Right 9 and Down 7
Which quadrant is the Image in?

8 Plot $(-1,7)$
Reflect over the *y-axis*
Which quadrant is the Image in?

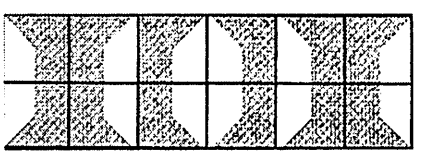
9 Plot $(4,5)$
Reflect over the *x-axis*
and then
over the *y-axis*
Where is the Image?

10 Plot $(-6,0)$
Reflect over the *x-axis*
Where is the Image?

11 Plot $(1,-10)$
Move Left 3 and Up 15
Where is the Image?

12 Plot $(7,-3)$
Reflect over the *y-axis*
and then
over the *x-axis*
Where is the Image??

Answer Box .....

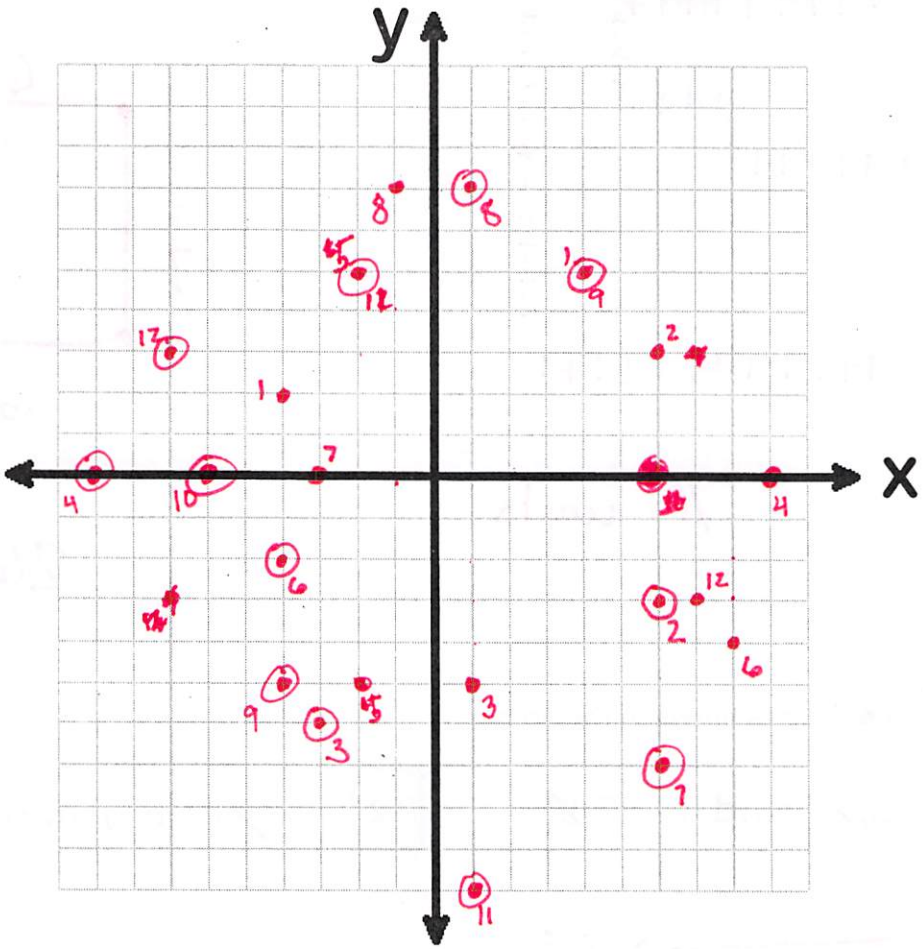


A Quadrant III	**B** $(6,-3)$	**C** $(-4,-5)$	**D** $(-3,-6)$	**E** $(-9,0)$	**F** $(4,5)$
G $(-7,3)$	**H** Quadrant I	**I** $(-2,5)$	**J** Quadrant II	**K** Quadrant IV	**L** $(-6,0)$

Reflecting and Translating Points

Teacher Check

Use the grid below to help you answer the questions. Each box on the grid represents 1 unit.



1 Plot $(-4, 2)$
Move Right 8 and Up 3
Where is the Image?

(4, 5)

2 Plot $(6, 3)$
Reflect over the *x-axis*
Where is the Image?

(6, -3)

3 Plot $(1, -5)$
Move Left 4 and Down 1
Where is the Image?

(-3, -6)

4 Plot $(9, 0)$
Reflect over the *y-axis*
Where is the Image?

(-9, 0)

5 Plot $(-2,-5)$
Reflect over the *x-axis*
Which quadrant is the Image in?

II

6 Plot $(8,-4)$
Move Left 12 and Up 2
Which quadrant is the Image in?

III

7 Plot $(-3,0)$
Move Right 9 and Down 7
Which quadrant is the Image in?

IV

8 Plot $(-1,7)$
Reflect over the *y-axis*
Which quadrant is the Image in?

I

9 Plot $(4,5)$
Reflect over the *x-axis*
and then
over the *y-axis*
Where is the Image?

$(-4,-5)$

10 Plot $(-6,0)$
Reflect over the *x-axis*
Where is the Image?

$(-6,0)$

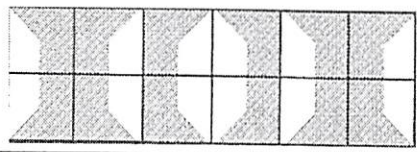
11 Plot $(1,-10)$
Move Left 3 and Up 15
Where is the Image?

$(-2,5)$

12 Plot $(7,-3)$
Reflect over the *y-axis*
and then
over the *x-axis*
Where is the Image??

$(-7,3)$

Answer Box .....



A Quadrant III	**B** $(6,-3)$	**C** $(-4,-5)$	**D** $(-3,-6)$	**E** $(-9,0)$	**F** $(4,5)$
G $(-7,3)$	**H** Quadrant I	**I** $(-2,5)$	**J** Quadrant II	**K** Quadrant IV	**L** $(-6,0)$