

Cohen Middle School
100 Robinwood Avenue
Elmira Heights, NY 14903
734-5078

Name: _____ Date: November 7, 2019 _____

Math:	Polygons on Coordinate Plane day 2 Review packet/activity hw: wksh
Social Studies:	- Finish Mummies, Tombs and Treasures HW: Ra the Sun god
ELA:	- Benchmark Test (hw) Article of the week due Friday 11/8
Science	① Finish <u>ALL</u> Titanic WEB QUEST NOTES step 1-6 Including sketches, data, budget - ② Score your NB and hand it in : <u>Due Today</u> 11/7 ③ Edoctring Practice Test (hw) STUDY
Computer Apps/ Technology	VARIABLES/ ENGINEERING UNIT TEST FRIDAY

Name: _____

Ra, God of the Sun

Religion was important in the daily life of Egyptians. They worshiped many gods and goddesses. **Ra** (RAH) was the sun god. It was believed that he created the world. His name is also spelled Re. To the early Egyptians, the sun was the symbol of creation.

The Egyptians believed that Ra sailed across the sky every day in a golden boat. At sunset, Ra sailed into the underworld. Temples to honor Ra were obelisks, and the sun itself became part of the temple as it rose to the top of the obelisk. (An obelisk is a tall, slender stone pillar that has a square base and four sides that come to a point at the top like a pyramid.) In the daytime, Ra had the head of a hawk with a sun disk on top. At night, he had the head of a ram and the body and wings of a vulture.

Over the many years of Egyptian history, ideas about the gods changed. The gods took on each other's roles or merged with other gods. Ra merged with the god Horus. That god was known as Ra-Horakhty. Ra combined with Amun (or Amon) and was known as Amun-Ra (or Re-Amon - there were different spellings of both). When merged with Atum, he was Atum-Ra. The god Ra lived on in varied forms until the Romans took over Egypt in the first century.

Ra, God of the Sun

Questions

1. Ra (or Re) was god of the _____.

_____ 2. Temples to honor the god Ra were of what shape?

- A. obelisks
- B. vultures
- C. pyramids
- D. steps

_____ 3. Where did Egyptians believe Ra was during the daytime?

- A. in the underworld
- B. in heaven
- C. sailing across the sky in a golden boat
- D. inside his temple

Name: _____

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- _____ 4. Where did Egyptians believe Ra was during the nighttime?
- A. in the underworld
 - B. sailing across the sky in a golden boat
 - C. in heaven
 - D. inside his temple

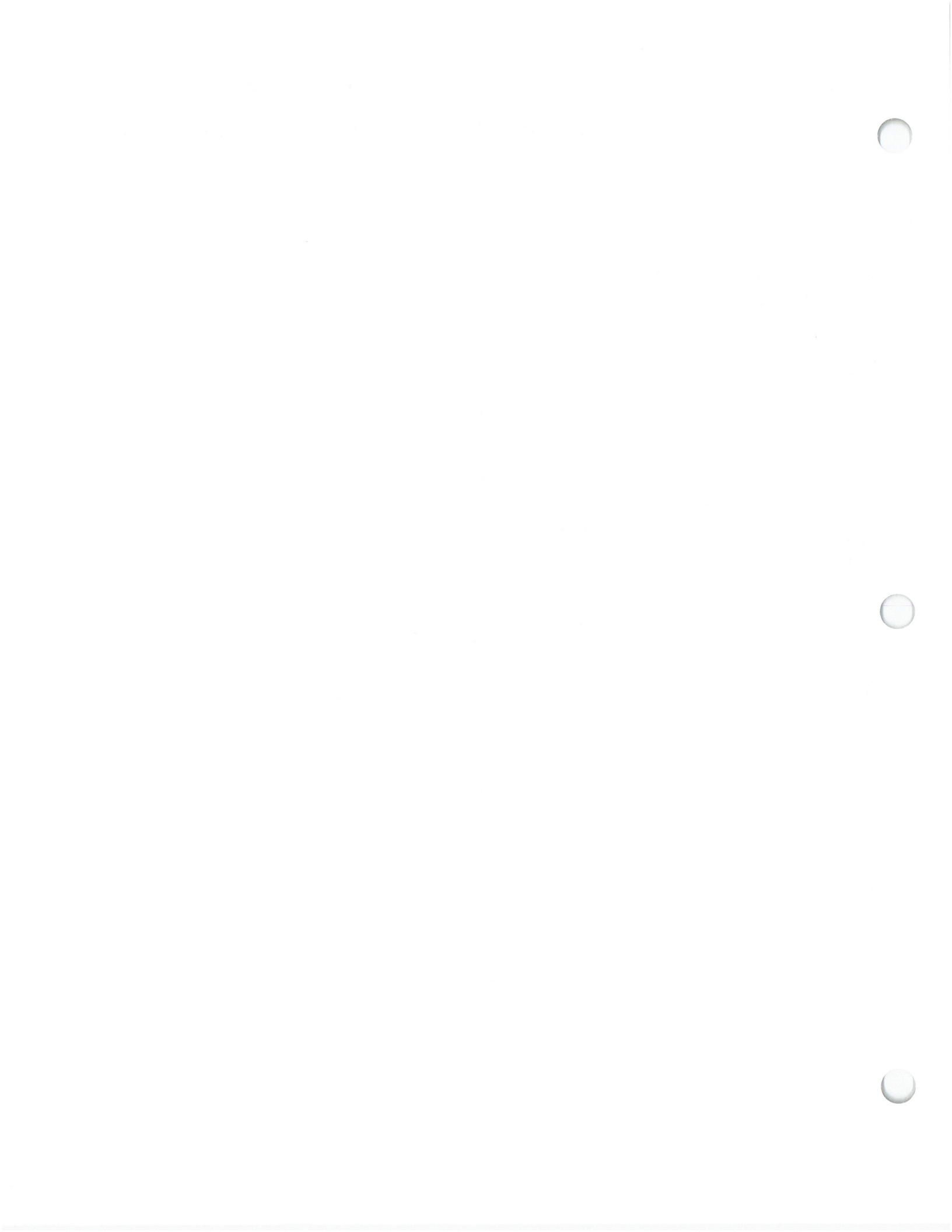
Name: _____

11/7/19 Science Per: _____

Titanic Quest Notebook Due Date: Thursday, November 7, 2019, end of class

	<u>10</u>	<u>8</u>	<u>6</u>	<u>4</u>	<u>2</u>	Your points	Teacher Score/ Comments
On time with your name	Turned in 11/7/19 by end of class	Turned in later that day	Friday 11/8/19	Tuesday 11/12/19	More than 1 week late		
Completed all tasks; all pages attached Step 1 2 3 4 5 6 7	NO BLANKS	1- 2 section blank	2 -3 sections blank	4 blanks	5+ blanks		
Neatness/ Organization	Very organized and neat; easy to read. Pages are in order	Mostly organized and neat, 2 parts or less are messy	3-4 parts not organized or hard to read	5-6 parts not organize; hard to read	Very messy; no real organization		
Key words/ concepts scientific facts (Engineering Chart, table step 1, step 4)	All scientific information is accurate and complete, steps are in the correct order	Most Scientific Information is accurate No missing information	3-4 facts not accurate	5-6 facts are not accurate.			
Quality explanations Claim/Evidence step 7	Restated and answered the question. Descriptions and explanations are complete. Specific EVIDENCE is cited, labeled and MUST BE WELL EXPLAINED	Restated and answered the question. Included an explanation with Cited evidence, not explained.	Restated and answered the question. Began to cite, did not explain. Does not match claim.	Answer to question is correct, lacks cited evidence Needs to work with a teacher to fix/finish	"I know this because we tested it." Left blank		
Diagrams/ Drawings Step 6, 3 drawings Step 6 B Peer graph paper	3 diagrams step 6. Peer graph paper includes top/side view Dimensions Materials Neatly done	2 diagrams step 6. Peer graph paper includes top/side view Dimensions Materials Neat	Diagram / drawings partially done; partially labeled,	1 out of three pieces there: drawing Labels Color	Not done; needs to re-do or complete		

Total points = _____ /60 = _____ % Lab grade



Steps to Finding the Distance Between Coordinate Points

Determine if the points are in the same quadrant, or in different quadrants.

If they are in different quadrants:

- 1)** Determine which coordinate is the same (x or y) and cross it out.
- 2)** Circle the number that is different in both coordinate pairs
- 3)** Find the absolute value of each number (write an expression)
- 4)** Find the sum.

If they are in the same quadrant:

- 1)** Determine which coordinate is the same (x or y) and cross it out.
- 2)** Circle the number that is different in both coordinate pairs.
- 3)** Write a subtraction expression.
- 4)** Find the difference

Name: _____

Date: _____

Polygons in the Coordinate Plane (Finding Area and Perimeter)

Vocabulary:

Side - one of the line segments

Vertex (plural vertices) - the point where two straight lines meet

Polygon - 2-dimensional shapes. They are made of straight lines, and the shape is "closed".

The vertices of four polygons are given below. For each polygon:

1. Plot the points on the coordinate plane and label each ordered pair. Connect the points in the order that they are listed.
2. Color it the appropriate color.
3. Calculate the area of each polygon by multiplying the length x width and label it "units²". Write the area in the space provided.
4. Calculate the perimeter of the first **three** polygons by adding up the length of each side and label it "units". Write the perimeter in the space provided.
5. Determine the shape of each polygon and write in the space provided.

Quadrant I:

This polygon has the following vertices. Color it green.

(1,6) (7,6) (7,12) (1,12)

Shape: _____ Area: _____ Perimeter: _____

Quadrant II:

This polygon has the following vertices. Color it red.

(-2,12) (-2,16) (-12,16) (-12,12)

Shape: _____ Area: _____ Perimeter: _____

Quadrant III:

This polygon has the following vertices. Color it yellow.

(-7,-1) (-7,-17) (-6,-17) (-6,-1)

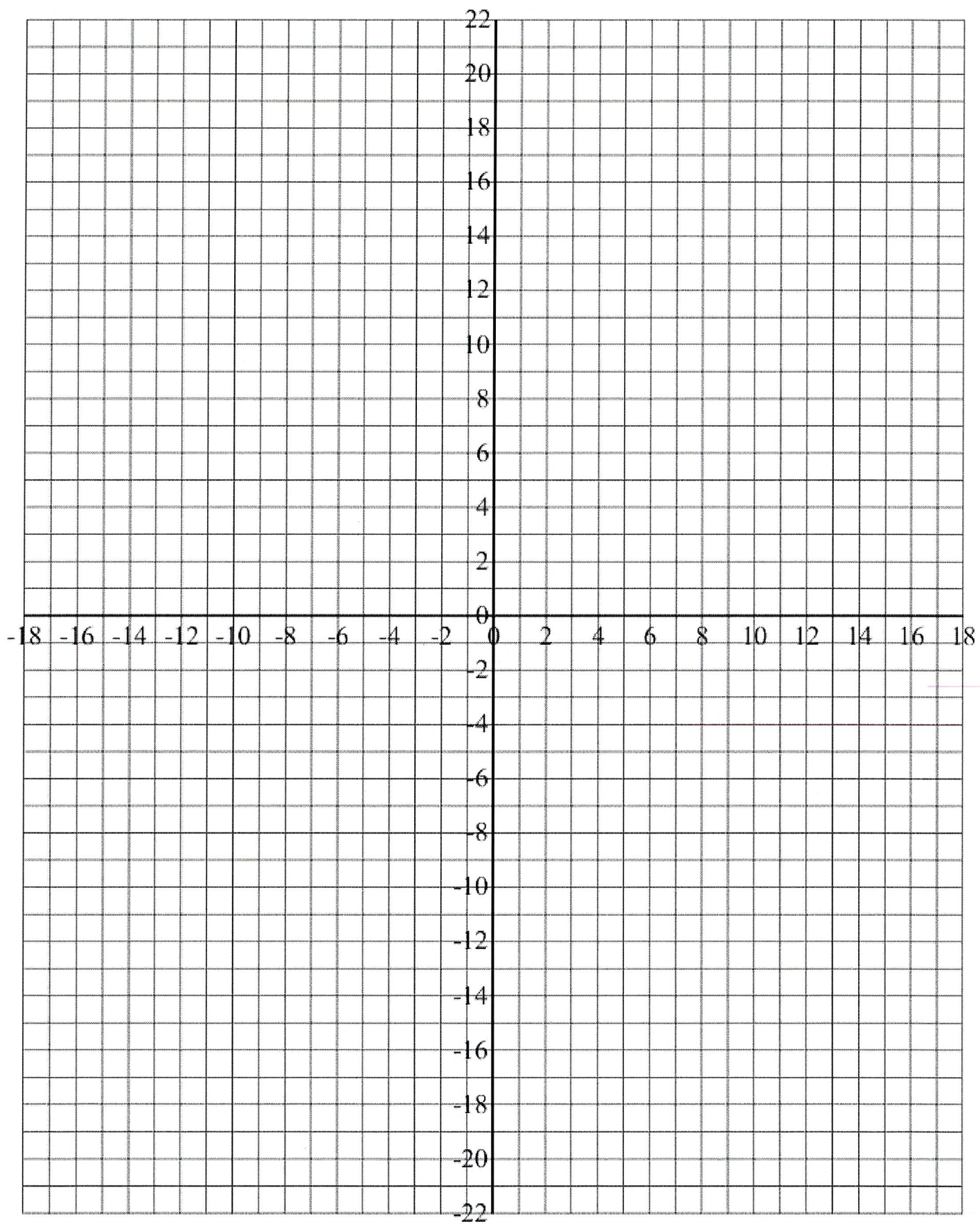
Shape: _____ Area: _____ Perimeter: _____

*Quadrant IV:

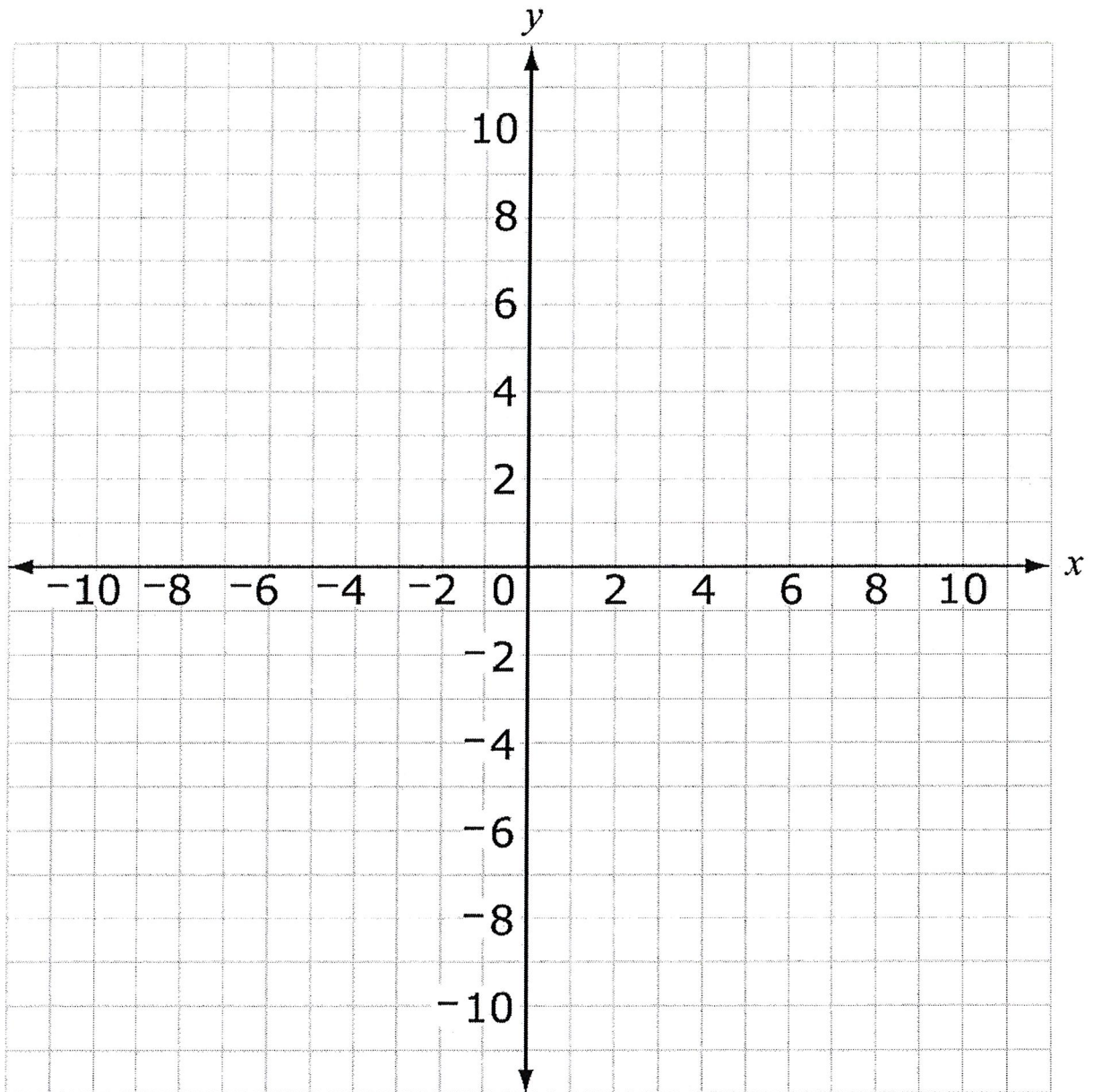
This polygon has the following vertices. Color it blue.

(4,-5) (4,-13) (9,-13)

Shape: _____ Area: ~~_____~~ Perimeter: ~~_____~~



Distances between Coordinate Pairs

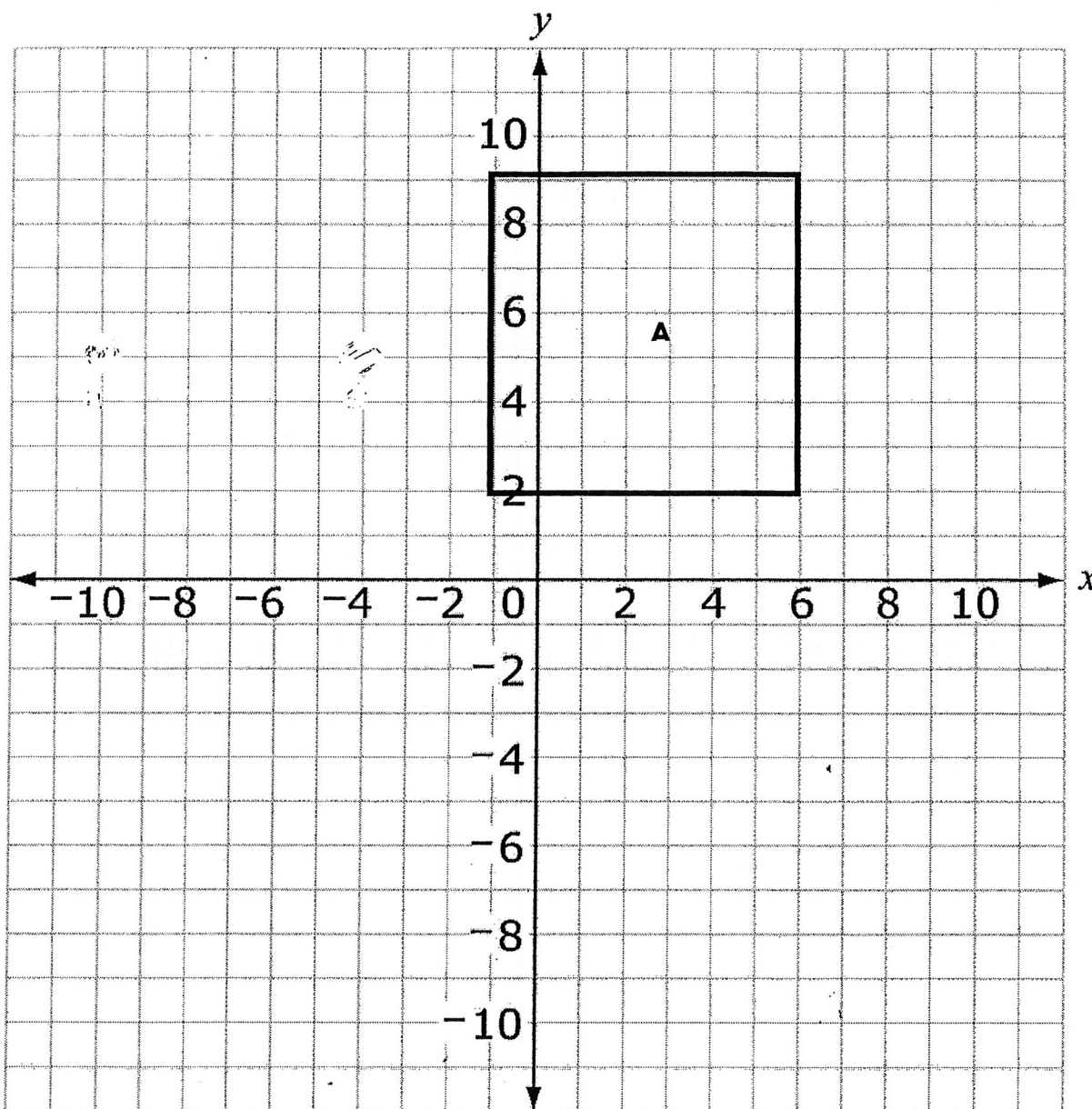


Point A is located at $(4, -3)$ and point B is located at $(-5, -3)$.

- Plot both points on the grid above.
- What is the distance from point A to point B? Explain how you determined the distance.

Partner Practice

Solve the following problems with your partner.



1. List the coordinates of the vertices of figure A in the space below. What are the dimensions of figure A?

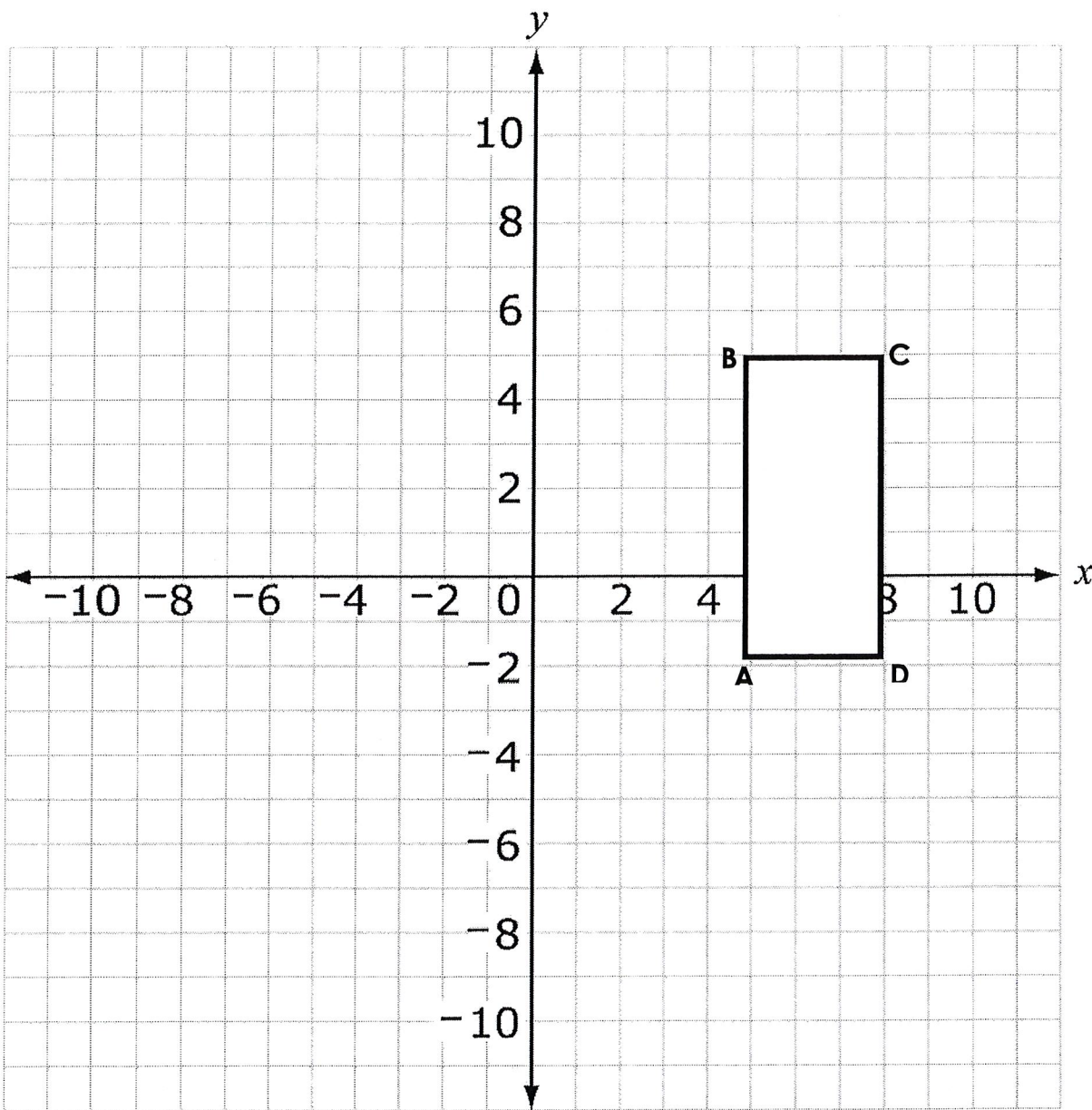
Coordinates: _____

Length: _____

Width: _____

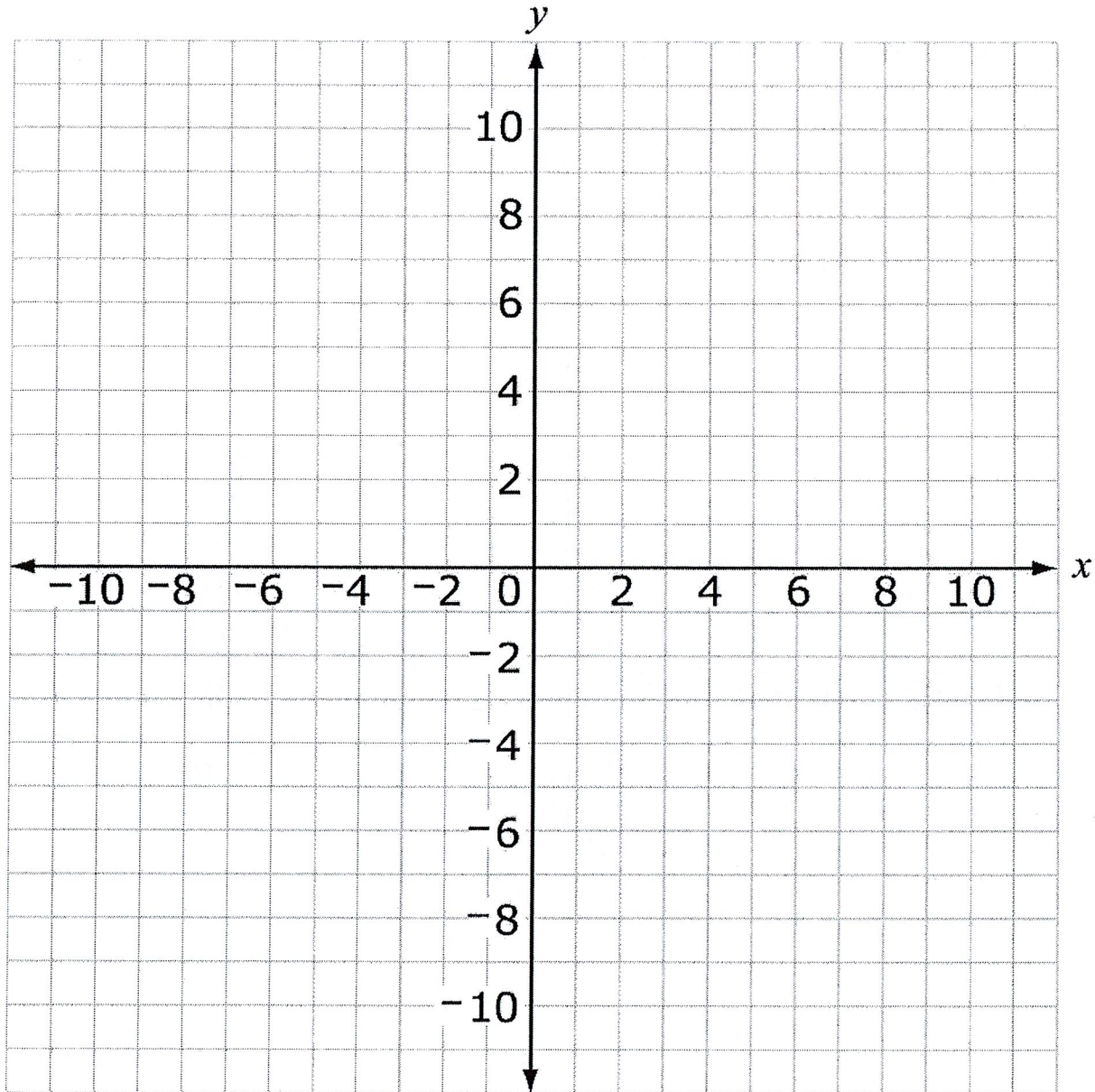
Polygons on the Grid

Use the graph below to answer the questions below.



Turn and Talk! Angel sees the question above and quickly writes down that “the perimeter of the geometric shape is 21 units.” He doesn’t show any work, but is confident of his answer and patiently waits for the next set of instructions. What do you think of Angel’s work?

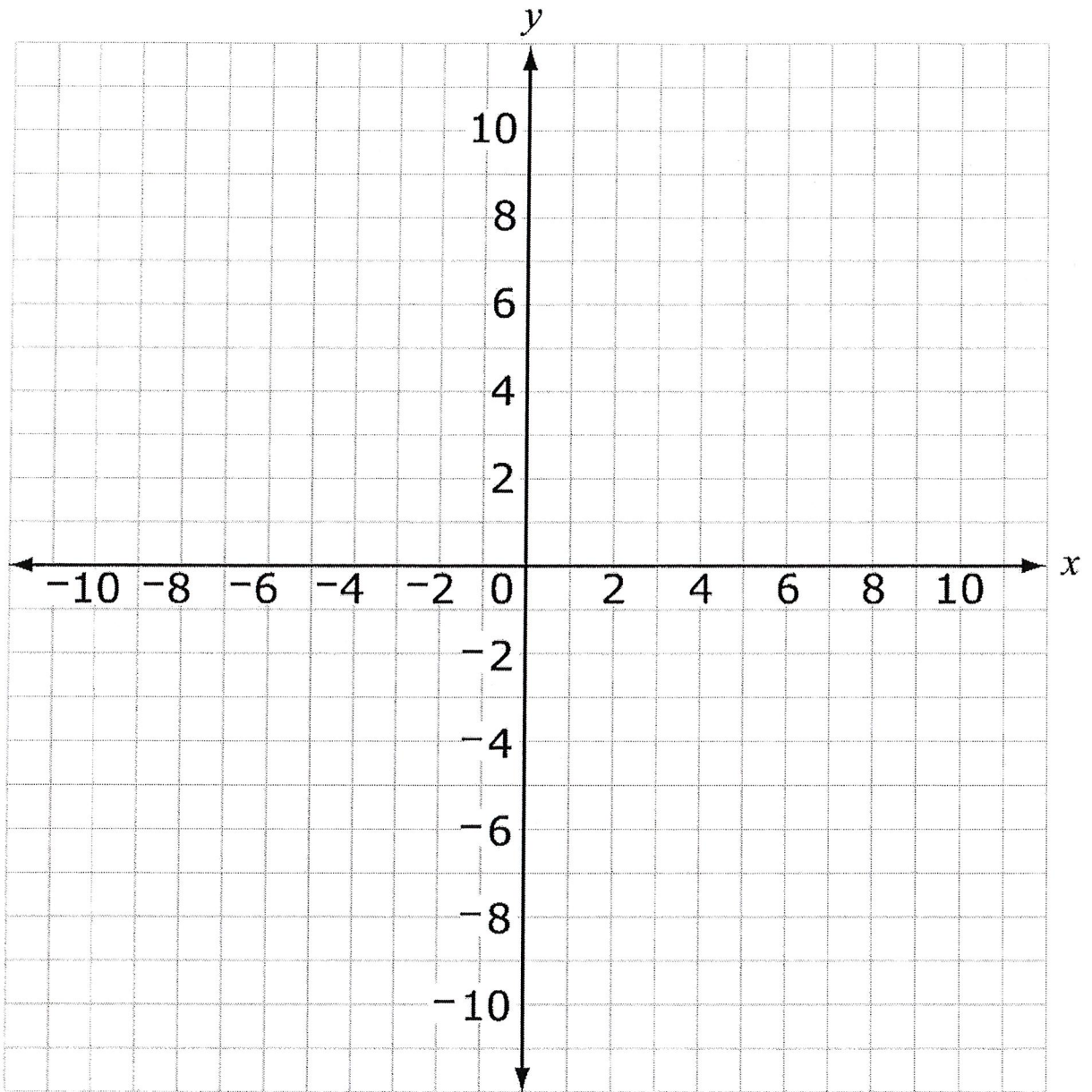
Ex. 1) Use the graph below to answer the questions below.



1. Plot the following coordinates: A(3,4), B(3,-3), and C(-3,-3) and D(-3, 4)
2. Connect each of the points with a straight line.
3. Connect points A, B, C, and D.
4. What is the width and length of the figure above?
Width: _____ Length: _____
5. What is the perimeter of the geometric figure drawn on the grid?

Final CFU

Plot vertices at the following coordinates: $R(0, -10)$, $Q(-3, -10)$ and $S(-3, 5)$.



a) What could a possible fourth coordinate be if you were attempting to draw a rectangle?

b) What would the perimeter of the rectangle be?

Name _____

Homework

Drawing Polygons Practice

CCSS.6.G.A.3: Draw polygons in the coordinate plane given coordinates for their vertices.

Use the coordinate graph to plot points for each problem.

1) Plot these points on a coordinate graph.

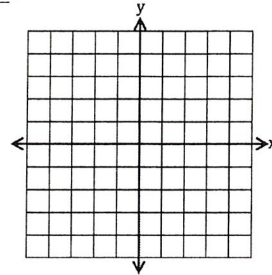
Point Q (-3, -2)

Point R (-3, 4)

Point S (3, 4)

Point T (3, -2)

What shape is created when you connect these points?



2) Plot these points on a coordinate graph.

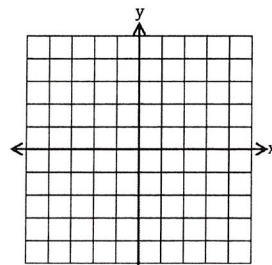
Point U (-1, -5)

Point V (-1, -2)

Point W (0, -2)

Point X (0, -5)

What shape is created when you connect these points?



3) Plot these points on a coordinate graph.

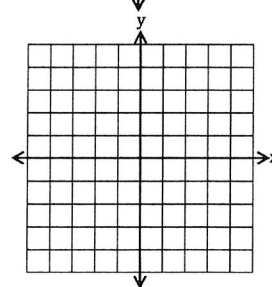
Point E (-5, 4)

Point F (4, 4)

Point G (4, -3)

Point H (-5, -3)

What shape is created when you connect these points?



4) Three vertices of a rectangle are:

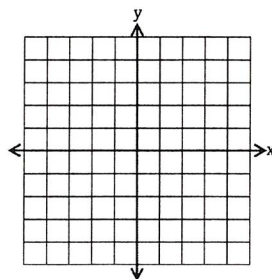
Point I (2, 5)

Point J (-4, 5)

Point K (-4, -2)

Find the coordinates of the fourth vertex. _____

List the lengths of all four sides. _____



5) Plot these points on a coordinate graph:

Point A (-1, 4)

Point B (5, 4)

Point C (5, -2)

If this is a square with the fourth Point D, find the coordinates of Point D. _____

What is the side length of this square? _____

