Ready-Ed Publications

mini e-book

PHOTOCOPY MASTERS

Maths

Cartesian Plane

For Upper Primary

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mini e-book

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Contents

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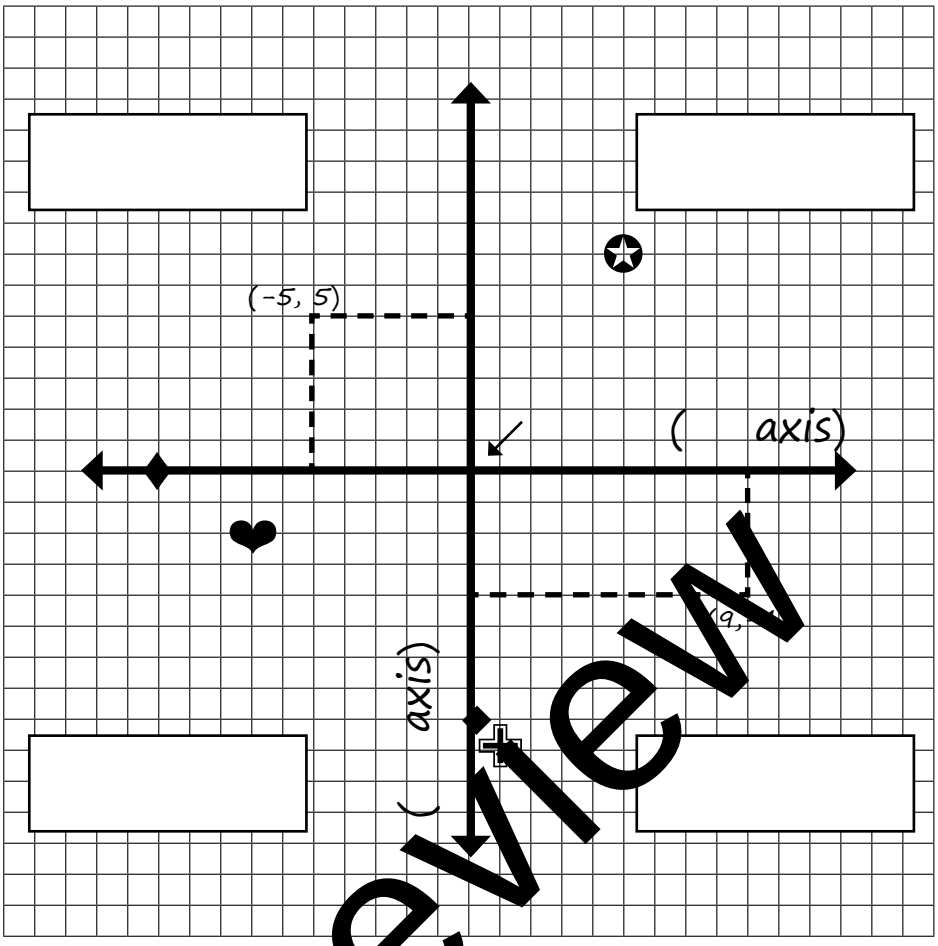
Know Your Cartesian Plane

Complete the questions below based on this Cartesian plane.



1. Label the x- and y-axis.

2. Label the plane's quadrants in the boxes.

3. What does the arrow ( ) indicate at the intersection of the x- and y-axis?

_____

4. How do you order and write the coordinates of a point on the plane?

_____

5. Write the coordinates for the positions of the icons on the plane.

✪ _____ ❤ _____

✚ _____ ♦ _____

6. Plot a point on the plane in Quadrant 1 and write its coordinates. _____

7. What will this point's mirror coordinates be in Quadrant 4? _____

8. What do the arrows mean on the x- and y-axis?

_____

Curriculum Link: Introduce the Cartesian coordinate system using all four quadrants (ACMMG143)

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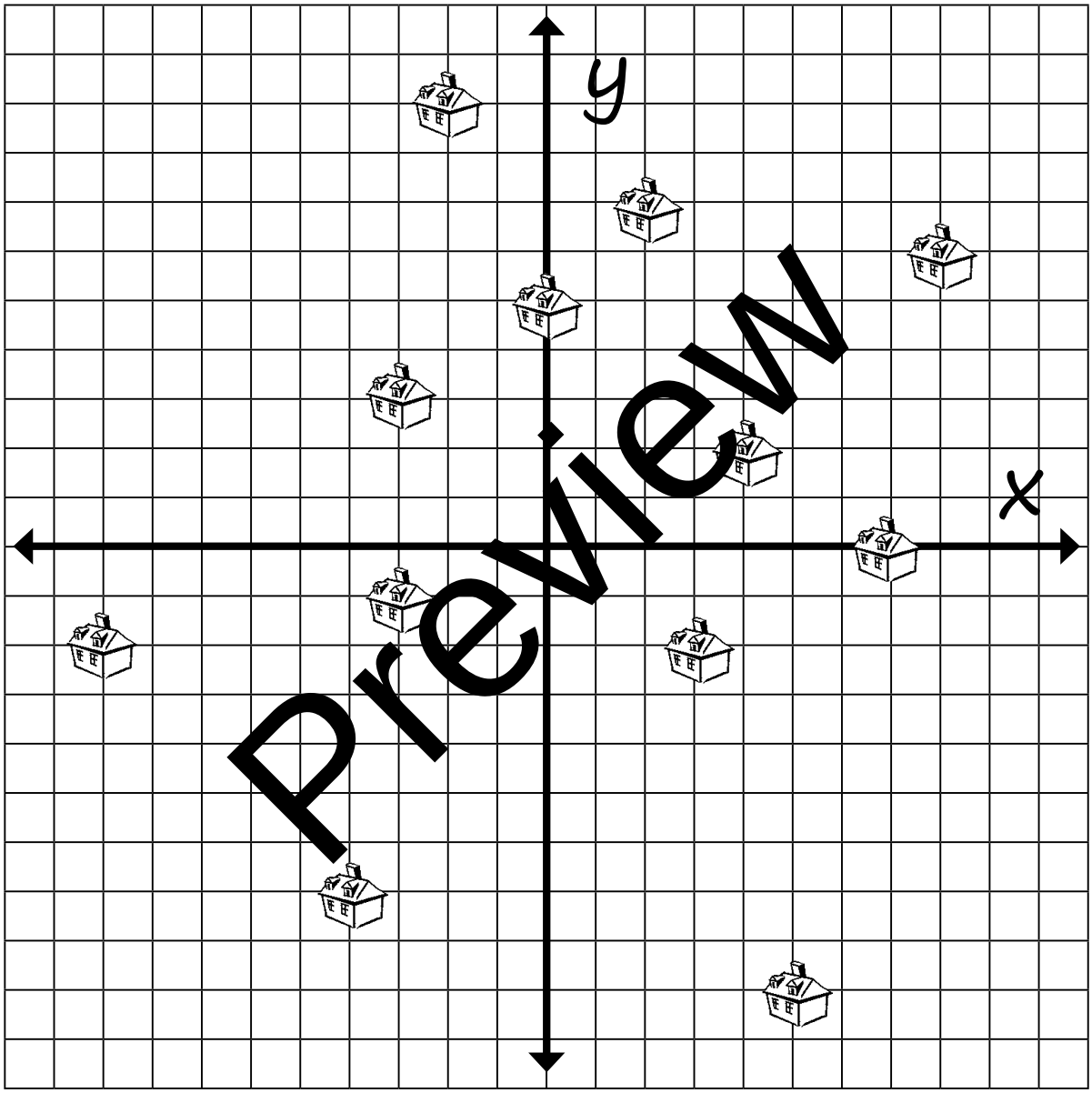
Fast Delivery (Student A)

You are going to call out coordinates to your partner so he/she can deliver pizzas to the houses in the correct order. If you take too long, the pizza is free!

- Before you send your partner out to deliver pizzas, make sure you can identify the coordinates of the houses on the plane below (write them at the bottom of the page). Number the order (1 – 12) of the deliveries, too, on the plane next to the houses. (Don't show your partner your sheet - they have their own!)



Coordinates

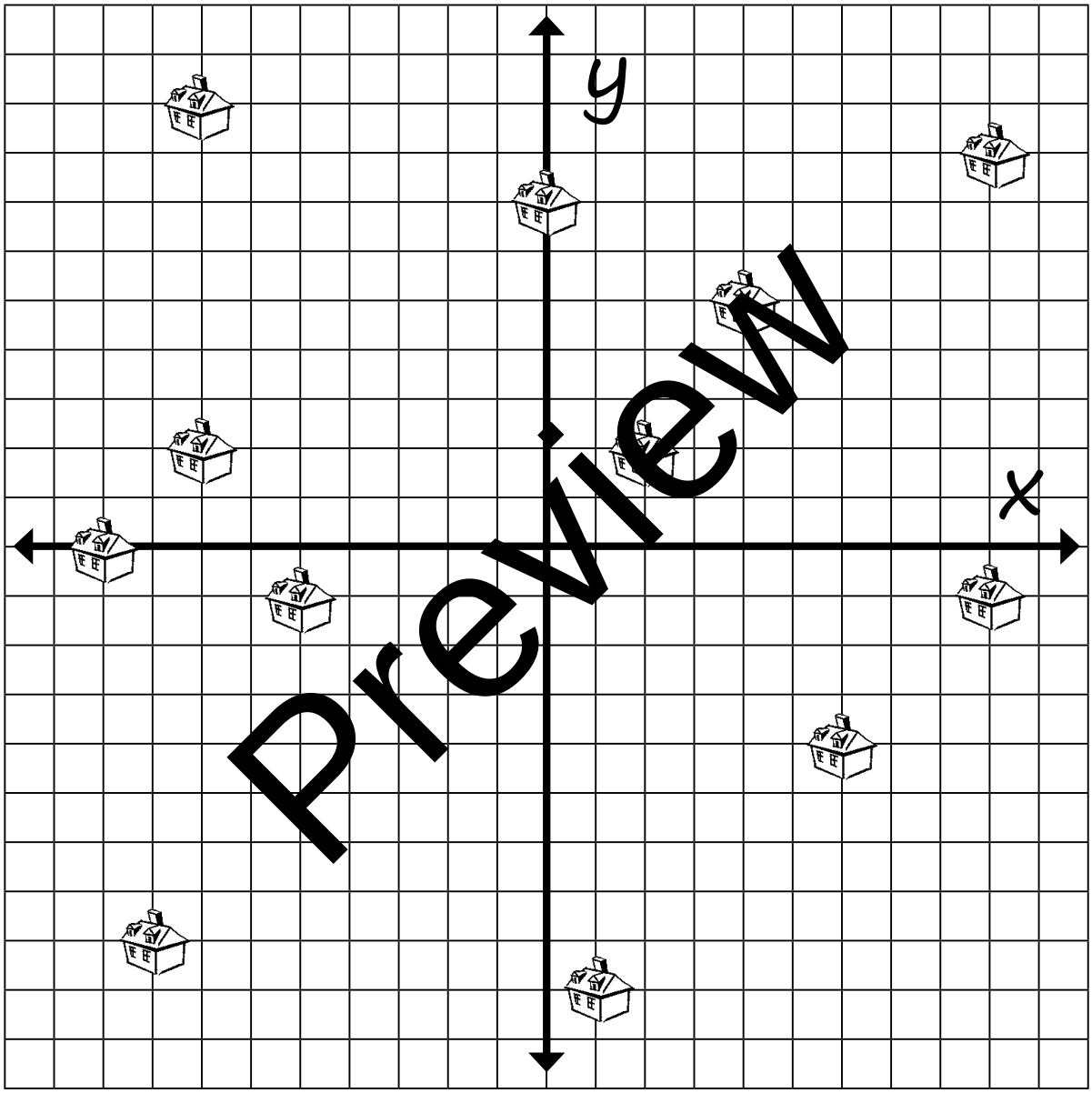
A.	B.	C.	D.
E.	F.	G.	H.
I.	J.	K.	L.

Curriculum Link: Introduce the Cartesian coordinate system using all four quadrants (ACMMG143)

Fast Delivery (Student B)

You are going to call out coordinates to your partner so he/she can deliver pizzas to the houses in the correct order. If you take too long, the pizza is free!

- Before you send your partner out to deliver pizzas, make sure you can identify the coordinates of the houses on the plane below (write them at the bottom of the page). Number the order (1 – 12) of the deliveries, too, on the plane next to the houses. (Don't show your partner your sheet - they have their own!)



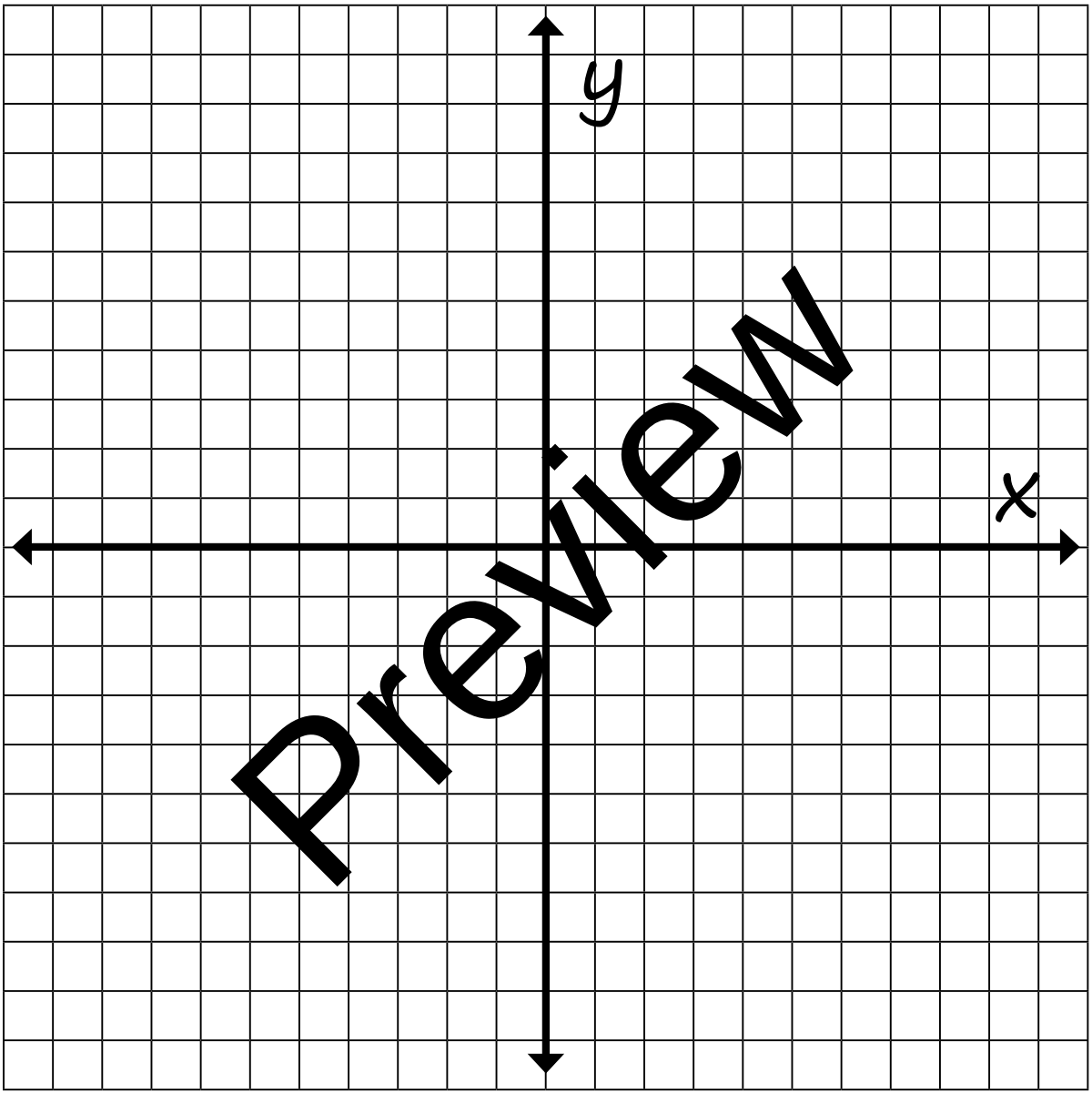
Coordinates

A.	B.	C.	D.
E.	F.	G.	H.
I.	J.	K.	L.

Fast Delivery (Response Sheet)

Your partner is going to call out 12 coordinates on this Cartesian plane. Your job is to find the positions as quickly as you can and make 12 pizza deliveries.

- Mark the position of the house with a cross (*x*) on the grid. Be as accurate as you can. After you have completed your deliveries, your partner will assess your pizza delivery skills.



12/12
Employee of the Month

11 – 7
Most Satisfactory

6 or less
Get another job!

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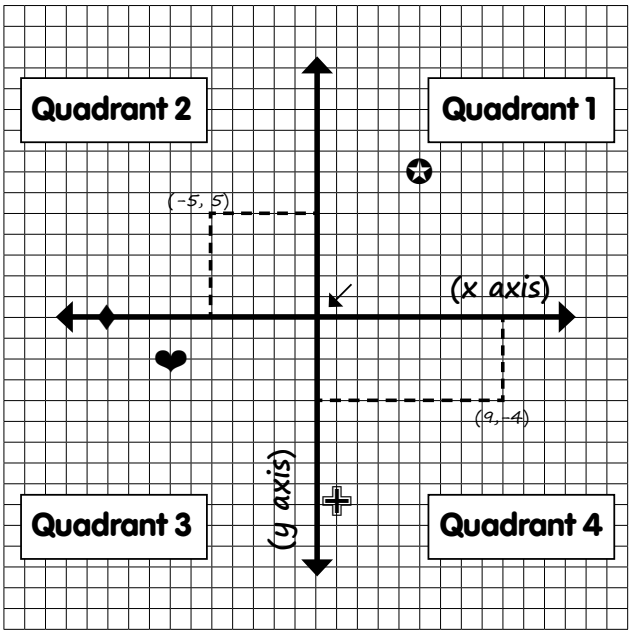
Answers

Page 3
1 & 2



3.The (0,0) coordinate
4. The x coordinate is written first, separated by a comma from the y coordinate. The coordinates are enclosed in brackets.
5.star (5,7); heart (-7, -2); cross (1,-9); diamond (0, 10)
6.Example: (8,2)
7. mirror coordinate in Quadrant 4 (8, -2)
Ask students to peer correct coordinates.
8.The arrows indicate that the numbers are increasing in the direction shown on the x- and y-axes.

Page 4-5
Student A: Students can order the coordinates in any order. Coordinates in Quadrant 1: (7,0), (4,2), (0,5), (8,6), (2,7); Quadrant 2: (-3,3), (-2,9); Quadrant 3: (-3,-1), (-9,-2), (-4, -7); Quadrant 4: (3, -2), (5, -9).
Student B: Quadrant 1: (2,2), (4,5), (0,7), (9,8); Quadrant 2: (-7,2), (-7,9), (0,-9); Quadrant 3: (-5,-1), (-8,-8); Quadrant 4: (9, -1), (6, -4), (1, -9)

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Students will peer mark coordinates.