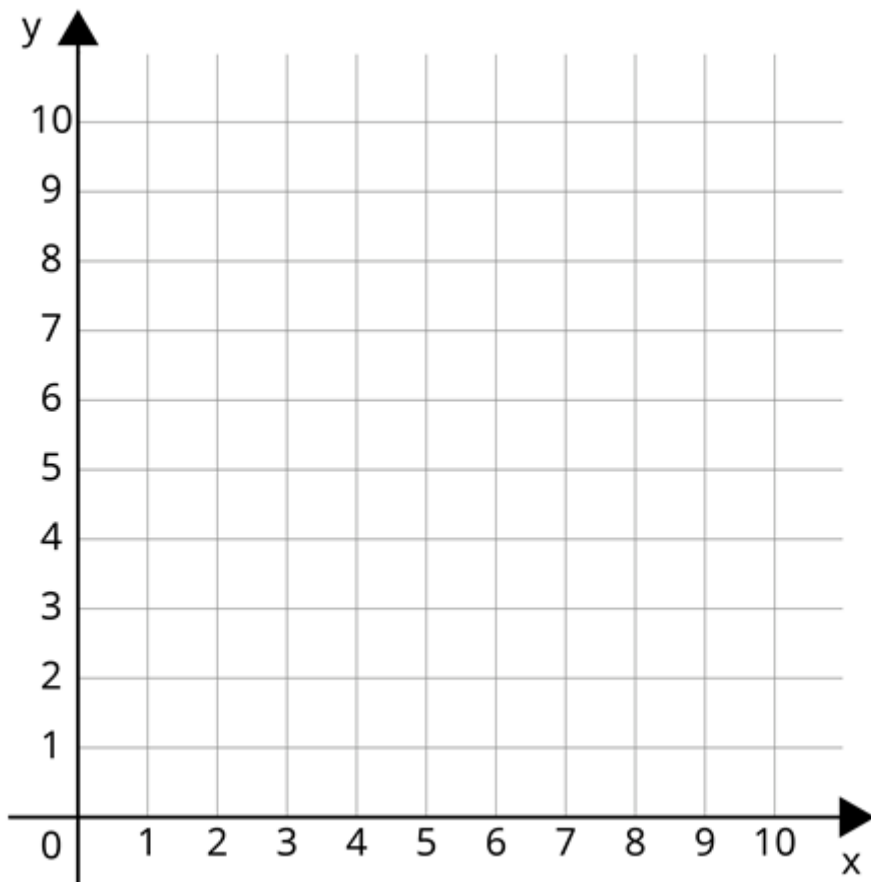
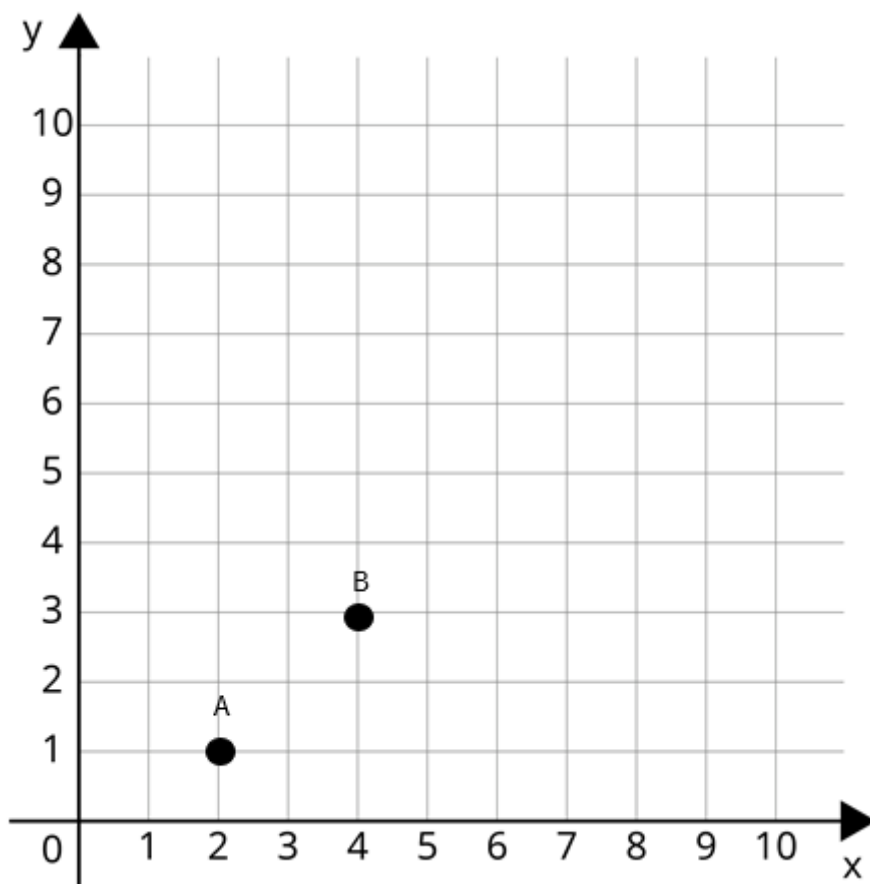


Grids

a.



b.



Arithmetic

1. $5,804 + 1,040$

2. $\frac{3}{6}$ of 36

3. $54 \div 6$

4. $182 + 40$

Practice: Draw on a Grid

5. Recap: Are points plotted between grid lines or on grid lines? Explain.



6. Plot these points on grid a:

a. (10,3)

b. (0,3)

c. (5,7)

7. Plot these points on grid a:

d. (3,7)

e. (2,1)

f. (6,8)

8. Plot these points on grid a, what shape is created?

g. (4,10)

h. (6,7)

i. (2,8)

9. Plot these points on grid a, what shape is created?

j. (4,1)

k. (4,2)

l. (5,1)

m. (5,2)

10. True or false. On grids like the ones shown, coordinates always come in pairs.



11. Grid b shows two vertices of a right-angle triangle. What could the third vertex be? Draw it on the grid and write the coordinates.

12. Grid b shows two points in a line. Draw two more points that would be in this line and write their coordinates.

13. For question 12, Samiha has written the coordinates (7,7). Is this correct? Explain.



Challenge

14. One vertex of a pentagon is drawn at (5,6). What could the other points be? Draw the pentagon on grid b.



You might want to talk to an adult



Spot the mistake

Answers

Q no.	Question	Answer
1	$5,804 + 1,040$	6,844
2	$\frac{3}{6}$ of 36	18
3	$54 \div 6$	9
4	$182 + 40$	222
5	Are points plotted between grid lines or on grid lines? Explain.	Points are plotted on grid lines.
6	Plot these points on grid a:	Points should be accurately drawn on the grid.
7	Plot these points on grid a:	Points should be accurately drawn on the grid.
8	Plot these points on grid a, what shape is created?	Points should be accurately drawn on the grid. Pupils should identify that a scalene triangle is drawn.
9	Plot these points on grid a, what shape is created?	Points should be accurately drawn on the grid. Pupils should identify that a square is drawn.
10	True or false. On grids like the ones shown, coordinates always come in pairs.	True. On a 2D grid, coordinates will always come in pairs. The time that coordinate grids do not come in pairs is when there is a 3D grid. Coordinates on a 3D grid come in threes (x, y, z).
11	Grid b shows two vertices of a right-angle triangle. What could the third vertex be?	(2,3) or (4,1)
12	Grid b shows two points in a line. Draw two more points that would be in this line and write their coordinates.	Accept any answers that continue the line. Example answers: (1,0) (3,2) (5,4).
13	For question 12, Samiha has written the coordinates (7,7). Is this correct? Explain.	Samiha is incorrect, she has not found a point that is in the line. She should have identified this as the two points already on the grid do not have the same number for the x and y coordinates.
14	One vertex of a pentagon is drawn at (5,6). What could the other points be? Draw the pentagon on grid b.	The answers will vary depending on the pentagon pupils draw. They should have drawn five vertices (including the vertex they have been given) and connected them. As long as their shape has five vertices and five sides, they will have accurately drawn a pentagon.