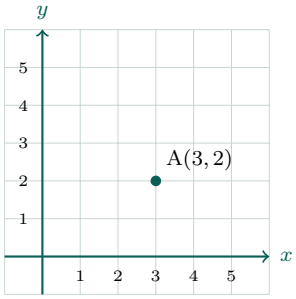
Coordinates and Midpoints

GCSE Mathematics • **Foundation Tier** • Grades 1–3 • Non-calculator

Name: _____ Class: _____ Total: _____ / 49

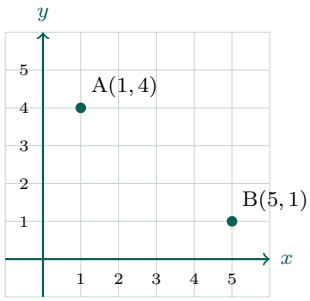
Show all your working. Marks are given for correct method as well as the final answer.

1. Write down the coordinates of point A. **[1 mark]**



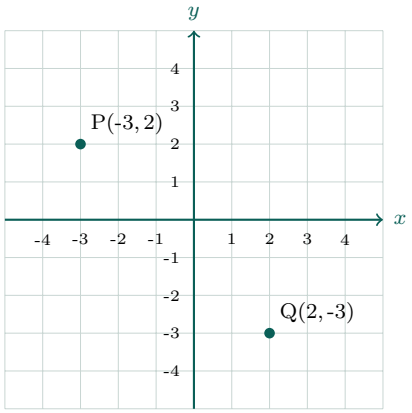
Answer: _____

2. Write down the coordinates of points A and B. **[2 marks]**



Answer: _____

3. Write down the coordinates of the points shown. **[2 marks]**



Answer: _____

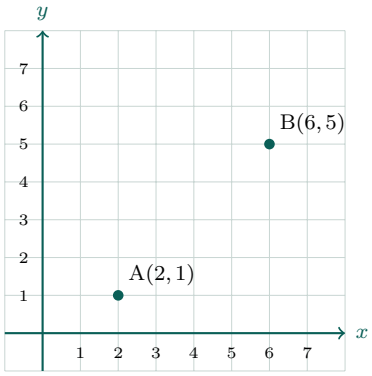
4. Write down the coordinates of the point where the two axes meet. **[1 mark]**

Answer: _____

5. A point has coordinates $(0, 4)$. Write down which axis it lies on. **[1 mark]**

Answer: _____

6. Work out the midpoint of $A(2, 1)$ and $B(6, 5)$. **[2 marks]**



Answer: _____

7. Work out the midpoint of $(1, 3)$ and $(4, 8)$. **[2 marks]**

Answer: _____

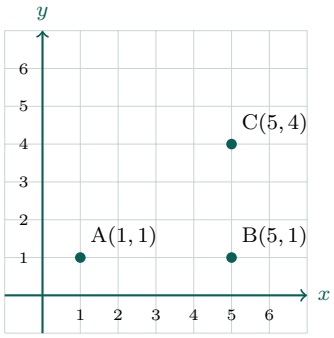
8. Work out the midpoint of $(-4, 2)$ and $(2, -6)$. **[3 marks]**

Answer: _____

9. $M(5, 4)$ is the midpoint of $A(1, 2)$ and B. Work out B. **[3 marks]**

Answer: _____

10. $A(1,1)$, $B(5,1)$ and $C(5,4)$ are three corners of a rectangle. Write down the fourth corner. **[2 marks]**



Answer: _____

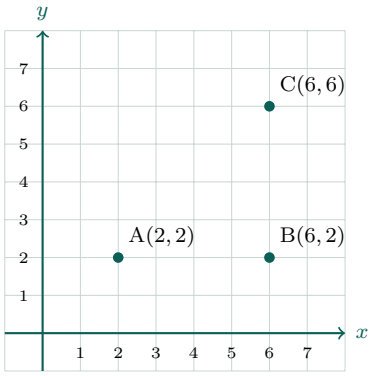
11. Work out the length of the line from $(2,3)$ to $(9,3)$. **[2 marks]**

Answer: _____

12. Work out the length of the line from $(4,-2)$ to $(4,6)$. **[2 marks]**

Answer: _____

13. A square has corners $(2, 2)$, $(6, 2)$ and $(6, 6)$.



(a) Write down the fourth corner. **[1 mark]**

(b) Work out the area of the square. **[2 marks]**

Answer: _____

14. Write down the coordinates of the point halfway along the line from $(0, 0)$ to $(10, 4)$. **[2 marks]**

Answer: _____

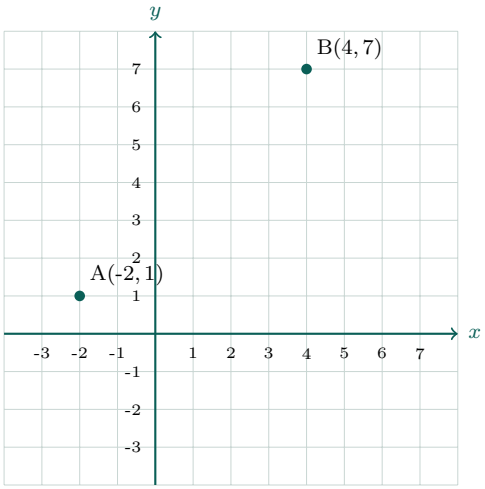
15. A point P is reflected in the y-axis. P is at $(3, 5)$. Write down the image. **[2 marks]**

Answer: _____

16. Points $(1, 2)$, $(2, 4)$ and $(3, 6)$ lie on a straight line. Write down the next point. **[2 marks]**

Answer: _____

17. A line joins $(-2, 1)$ and $(4, 7)$.

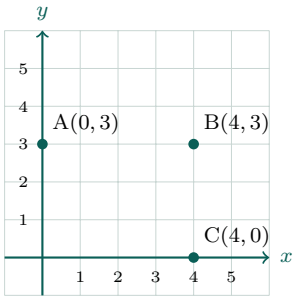


(a) Work out the midpoint. **[2 marks]**

(b) Work out how far it goes across and how far up. **[2 marks]**

Answer: _____

18. $A(0,3)$, $B(4,3)$ and $C(4,0)$ are corners of a triangle.



(a) Work out the length AB. **[1 mark]**

(b) Work out the area of the triangle. **[3 marks]**

Answer: _____

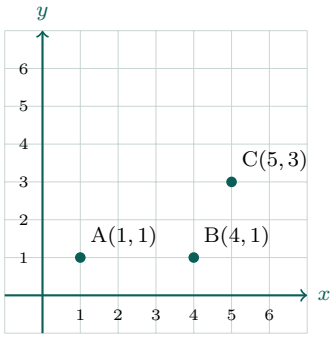
19. The midpoint of PQ is $(3, -1)$. P is $(-1, 4)$.

(a) Work out the coordinates of Q. **[3 marks]**

(b) Work out how far Q is to the right of P. **[2 marks]**

Answer: _____

20. Three vertices of a parallelogram are $(1, 1)$, $(4, 1)$ and $(5, 3)$.



(a) Write down the fourth vertex. **[2 marks]**

(b) Explain how you know your answer is right. **[2 marks]**

Answer: _____

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