

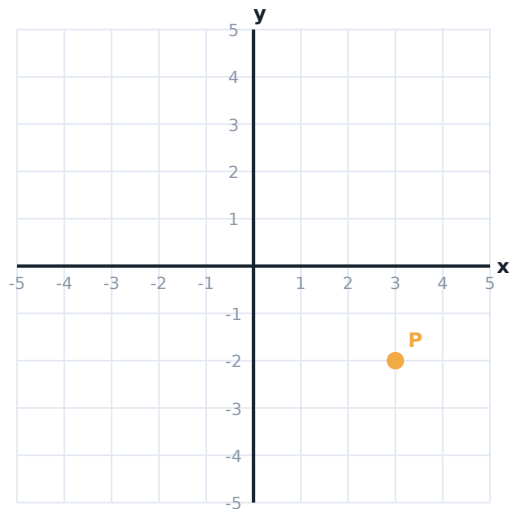
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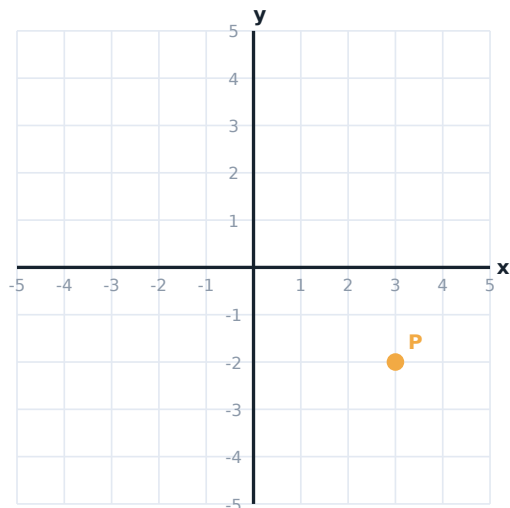
Stage 7 End-of-unit test 11

21 questions · 41 marks · calculators are not allowed · allow about 45 minutes

- 1 What is the x-coordinate of point P? [1]



- 2 What is the y-coordinate of point P? [1]



- 3 In which quadrant is $(-4, 3)$? Give the number. [2]

- 4 In which quadrant is $(2, -5)$? Give the number. [2]

5 Which number comes first in a coordinate pair? [1]

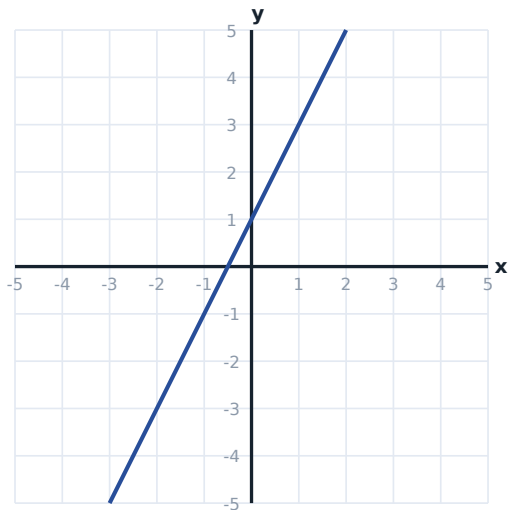
- ☐ The y-coordinate
- ☐ The x-coordinate
- ☐ Either
- ☐ The larger

6 How far apart are $(-4, 2)$ and $(6, 2)$? [2]

7 What is the x-coordinate of the midpoint of $(1, 1)$ and $(5, 5)$? [2]

8 For the line $y = 3x - 1$, what is y when $x = 4$? [2]

9 This is the line $y = 2x + 1$. Where does it cross the y-axis? Give the y-coordinate. [2]



10 In $y = 3x + 2$, what does the 3 tell you? [2]

- ☐ The y-intercept
- ☐ The gradient
- ☐ The value of x
- ☐ Nothing

11 What does the line $y = 4$ look like? [2]

- ☐ Vertical
- ☐ Horizontal, 4 above the x-axis
- ☐ Diagonal
- ☐ Through the origin

12 Do $y = 2x + 1$ and $y = 2x + 5$ ever cross? [2]

- ☐ Yes
- ☐ No

13 The line $y = 2x + 3$ passes through $(4, k)$. What is k ? [2]

- 14** Where does $y = 2x - 6$ cross the x-axis? Give the x-coordinate. [3]
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- 15** What does a flat section of a distance-time graph mean? [2]
- ☐ Moving fast
 - ☐ Moving slowly
 - ☐ Not moving
 - ☐ Going back
- 16** What does the gradient of a distance-time graph represent? [2]
- ☐ Distance
 - ☐ Time
 - ☐ Speed
 - ☐ The stop
- 17** Why does a conversion graph pass through the origin? [2]
- ☐ It always does
 - ☐ Zero of one unit is zero of the other
 - ☐ To look tidy
 - ☐ It does not
- 18** A car travels 240 km in 3 hours. What is its average speed, in km/h? [2]
-
- 19** A conversion graph shows 5 miles = 8 km. How many km is 20 miles? [3]
-
- 20** A taxi charges $y = 2x + 5$ dollars for x km. What is the fare for 6 km, in dollars? [2]
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- 21** In that taxi rule, what does the 5 represent, in dollars? [2]
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END OF TEST