

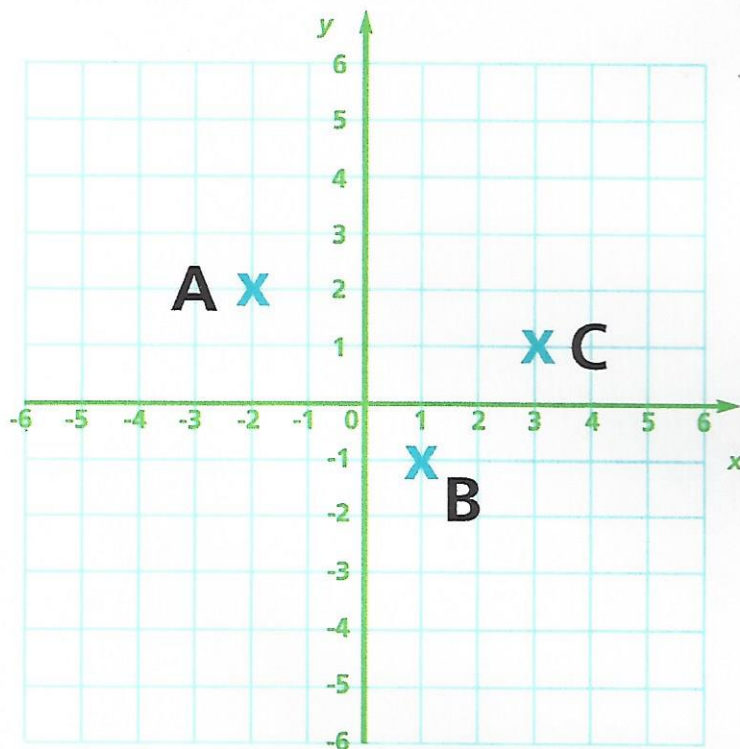
**G**raham was feeling very pleased with himself. He had got full marks for his maths homework, which was all about points on a coordinate grid. He showed the grid to his Dad, and asked him the first five questions.

Dad got those answers right.

'Okay,' said Graham. 'Here's question 6: A, B and C are three vertices of a pentagon that has three right angles. What are the coordinates of the other two vertices?'

Dad frowned. 'That is difficult.' He thought for a bit. 'What about one vertex at minus one, three... and the other at two, four?'

'Well,' said Graham, 'let's see...'



# Graham's grid

## Comprehension questions

- A, B and C are three vertices of a rectangle. What are the coordinates of the fourth vertex?
  - (0, 4)
  - (0, 5)
  - (-1, -3)
- A, B and C are three vertices of a parallelogram. What are the coordinates of the fourth vertex?
  - (-4, 2)
  - (-4, 1)
  - (-4, 0)
- A, B and C are three vertices of a triangle. What type of triangle is it?
  - isosceles
  - right-angled
  - scalene
- Points T and W are on a line parallel to line BC. Where could T and W be?
  - (-1, 1), (-2, 1)
  - (-2, -1), (1, 2)
  - (0, 0), (0, 1)
- Points Y and Z are on a line perpendicular to line AB. Where could Y and Z be?
  - (-2, 0), (1, 3)
  - (-2, 1), (2, 1)
  - (-2, 2), (-3, 5)
- Was Dad's answer to question 6 correct?
  - Yes, they are at (-1, 3) and (2, 4).
  - No, they are at (0, 4) and (3, 4).
  - No, they are at (0, 3) and (2, 2).