

- 1 A graph has the equation  $y = 3x + 8$ .
  - a. What is the gradient of the graph?
  - b. What is the y- intercept?
  - c. What are the co-ordinates of the y- intercept?
  - d. Does the graph go through the point (4,20) ?
  - e. Does the graph go through the point (8,16) ?
- 2 A graph has the equation  $y = 2x - 4$ .
  - a. What is the gradient of the graph?
  - b. What is the y- intercept?
  - c. What are the co-ordinates of the y- intercept?
  - d. Does the graph go through the point (3,10) ?
  - e. Does the graph go through the point (6,8) ?
- 3 A graph has the equation  $y = 12 - 2x$ .
  - a. What is the gradient of the graph?
  - b. What is the y- intercept?
  - c. What are the co-ordinates of the y- intercept?
  - d. Does the graph go through the point (3,6) ?
  - e. Does the graph go through the point (4,4) ?
- 4 A graph has the equation  $3y = 9x + 15$ .
  - a. What is the gradient of the graph?
  - b. What is the y- intercept?
  - c. What are the co-ordinates of the y- intercept?
  - d. Does the graph go through the point (2, 30) ?
  - e. Does the graph go through the point (1,8) ?
- 5 A graph has the equation  $y = 20 - x$ .
  - a. What is the gradient of the graph?
  - b. What is the y- intercept?
  - c. What are the co-ordinates of the y- intercept?
  - d. Does the graph go through the point (3,27) ?
  - e. Does the graph go through the point (5,15) ?
- 6 A graph has the equation  $y = x + 2x + 6x$ .
  - a. What is the gradient of the graph?
  - b. What is the y- intercept?
  - c. What are the co-ordinates of the y- intercept?
  - d. Does the graph go through the point (1,18) ?
  - e. Does the graph go through the point (3,27) ?
- 7 A graph has the equation  $y = \frac{x}{2} + 7$ .
  - a. What is the gradient of the graph?
  - b. What is the y- intercept?
  - c. What are the co-ordinates of the y- intercept?
  - d. Does the graph go through the point (4,17) ?
  - e. Does the graph go through the point (6,10) ?
- 8 A graph has the equation  $y = 8x - 25$ .
  - a. What is the gradient of the graph?
  - b. What is the y- intercept?
  - c. What are the co-ordinates of the y- intercept?
  - d. Does the graph go through the point (6,23) ?
  - e. Does the graph go through the point (8,16) ?