GRADIENT BETWEEN TWO COORDINATES

Answer all of these questions. Remember to show your working out in all questions.

MAIN QUESTIONS

- 1. (2, 3) and (5, 7)
- (0,0) and (3,6)
- (5, 7) and (1, 3)
- 7. (-3, -5) and (1, 3)
- 9. (0, 5) and (5, 0)
- 11. (1, 1) and (1, 5)
- 13. (-2, -3) and (4, 9)
- 15. (5, 10) and (10, 20)
- 17. (-4, -6) and (0, 0)
- 19. (9, 5) and (6, 5)

- 2. (1, 1) and (4, 9)
- 4. (-1, 2) and (3, 10)
- 6. (2, 4) and (6, 16)
- 8. (4, 1) and (8, 5)
- 10. (7, 2) and (3, 6)
- 12. (3, 4) and (7, 4)
- 14. (6, 2) and (2, 6)
- 16. (8, 3) and (2, 9)
- 18. (3, 7) and (3, 2)
- 20. (10, 20) and (5, 10)

MASTER QUESTIONS



M1. A line passes through the points (2, 3) and (5, 7). Find its gradient.

- M2. A hill rises 50 metres over a horizontal distance of 200 metres. Calculate the gradient.
- M3. A road has a gradient of 0.15. How much does it rise over a horizontal distance of 80 metres?
- M4. A line has a gradient of 2 and passes through the points (1, 1) and (3, y). Find y.
- M5. A line segment joins (4, 1) to (8, 5). Another joins (3, 6) to (7, 2). Are they parallel?
- M6. A staircase has a rise of 18cm for each 24cm tread. What is its gradient?
- M7. A line passes through (0, 0) and (a, b) with gradient 3. Express b in terms of a.
- M8. Two points (3, y) and (7, 11) have a gradient of 2. Find y.
- M9. A line with gradient -1 passes through (5, 5). Find another point on the line.
- M10. A line segment from (1, 4) to (5, 12) is extended to (9, y). Find y.