

Spot the mistake relay and maths taboo for IGCSE and GCSE

IGCSE Math Revision · IGCSE and GCSE (Higher and Extended) · Student sheet

Name _____

Class _____

Date _____

A calculator is allowed.

Starter (5 minutes)

1. $5 - 2(x - 3) = 5 - 2x - 6$
2. $\sqrt{8} + \sqrt{18} = \sqrt{26}$
3. 3 hours 36 minutes = 3.36 hours

Main activity (34 minutes)

Task A: Relay, part 1

Each worked solution has exactly one mistake. Find it, then give the correct answer.

- a. After a 20% increase a price is £84. Find the original price. *Working: 20% of 84 = 16.80, so 84 - 16.80 = £67.20.*
- b. £2000 is invested at 5% compound interest for 3 years. Find the total. *Working: 5% of 2000 = 100; 3 × 100 = 300; total £2300.*
- c. Two similar jugs are 10 cm and 15 cm tall. The small one holds 400 ml. How much does the large one hold? *Working: scale factor 1.5, so 400 × 1.5 = 600 ml.*

Task B: Relay, part 2

Each worked solution has exactly one mistake. Find it, then give the correct answer.

- a. A spinner lands on red with probability 0.3. It is spun twice. Find P(both red). *Working: 0.3 + 0.3 = 0.6.*
- b. $a = 8.4$ and $b = 2.6$, both to 1 decimal place. Find the upper bound of $a - b$. *Working: 8.45 - 2.65 = 5.8.*
- c. Solve $4^x = 8^{x-1}$. *Working: 4x = 8(x - 1), so 4x = 8x - 8 and x = 2.*

Task C: Maths taboo

Describe the word to your team without saying it or any of the banned words.

- a. Describe **PERIMETER** without saying: around, edge, outside, length.
- b. Describe **PRIME** without saying: factor, divide, one, itself.
- c. Describe **GRADIENT** without saying: slope, steep, line, rise.
- d. Describe **MEDIAN** without saying: middle, average, centre, order.

Extension

1. Write $-x^2 + 6x + 1$ in the form $a - (x - b)^2$. *Working:* $-(x^2 + 6x) + 1 = -(x + 3)^2 + 9 + 1$.