Sharing prize money 1 - answers

1. **£75 in the ratio 2:3**

Correct answer: Add together the numbers in the ratio (2 + 3 = 5). Then divide to find out the amount for 1 share (£75 ÷ 5 = £15). Then multiply £15 by each of the numbers in the ratio.

(£15 × 2 = £30) and (£15 × 3 = £45) to get the answer: **£30:£45**.

2. **£60 in the ratio 4:5:1**

Correct answer: Add together the numbers in the ratio (4 + 5 + 1 = 10).
Then divide to find out the amount for 1 share (£60 ÷ 10 = £6).
Then multiply (£6 × 4 = £24) and (£6 × 5 = £30) and (£6 × 1 = £6) to get the answer: **£24:£30:£6**.

3. **£28 in the ratio 4:3**

Correct answer: Add together the numbers in the ratio (4 + 3 = 7).
Then divide to find out the amount for 1 share (£28 ÷ 7 = £4).
Then multiply (£4 × 4 = £16) and (£4 × 3 = £12) to get the answer: **£16:£12**.

4. **£2,500 in the ratio 1:4**

Correct answer: Add together the numbers in the ratio (1 + 4 = 5).
Then divide to find out the amount for 1 share (£2,500 ÷ 5 = £500).
Then multiply (£500 × 1 = £500) and (£500 × 4 = £2,000) to get the answer: **£500:£2,000**.

5. You've been given the heights of two candles: **Candle A is 9 cm high; Candle B is 30 mm high. What is the ratio of their heights?**

Correct answer: If you had a problem working out the answer, remember that 9 cm and 30 mm are in different units.

You have to convert them to cm, like this:
Candle A is 9 cm; Candle B is 30 mm = 3 cm.

The ratio is **9:3, which is 3:1** in its simplest form (9 and 3 divided by 3).