

Summer Term Maths Year 10

Using ratios to find unknown values

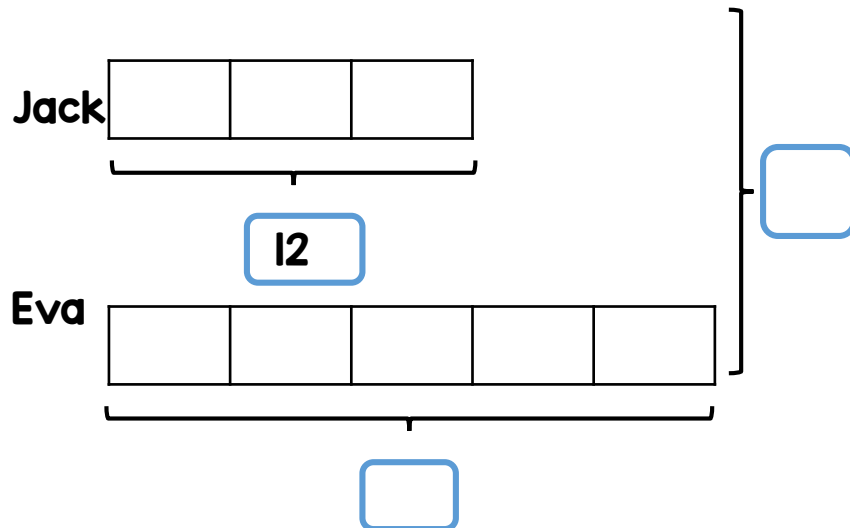
Day 2

Week 5

1 Jack and Eva share some sweets in the ratio 3:5

Jack receives 12 sweets.

- (a) How many sweets is each share?
- (b) How many sweets does Eva receive?
- (c) How many sweets did they have altogether?



2 Amir and Rosie are sharing some marbles in the ratio 2:7

Rosie receives 35 marbles.

- (a) Draw a bar model to represent the information.

- (b) How many marbles does Amir receive?

- (c) How many more marbles did Rosie get than Amir?

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2

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- 3** Tommy and Whitney share some stickers in the ratio 9:5
Tommy gets 36 more stickers than Whitney.
Dora is trying to work out how many stickers Whitney received.

$$36 \div 9 = 4$$

$$4 \times 5 = 20$$

Whitney gets 20 stickers.

What mistake has Whitney made?
Correct her answer.



- 4** A box contains counters.
The ratio of blue to green to red counters is 3:7:5
- There are 60 more red counters than blue counters.
- (a) How many counters are in the box?
- (b) If 30 blue counters were removed what would be the new ratio of blue to green to red be? Give your answer in it's simplest form.