

# Summer Term Maths Year 10

Using ratios to find unknown values

Day 2

Week 5

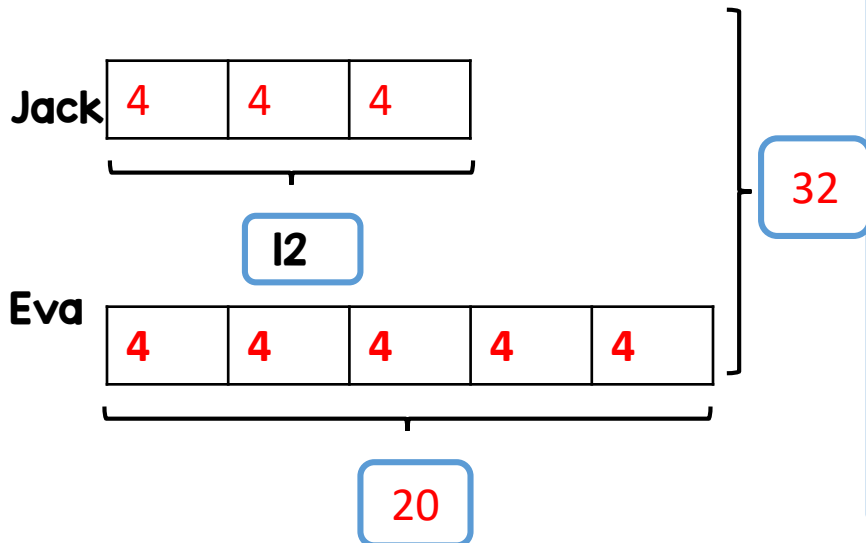
1 Jack and Eva share some sweets in the ratio 3:5

Jack receives 12 sweets.

(a) How many sweets is each share? 4

(b) How many sweets does Eva receive? 20

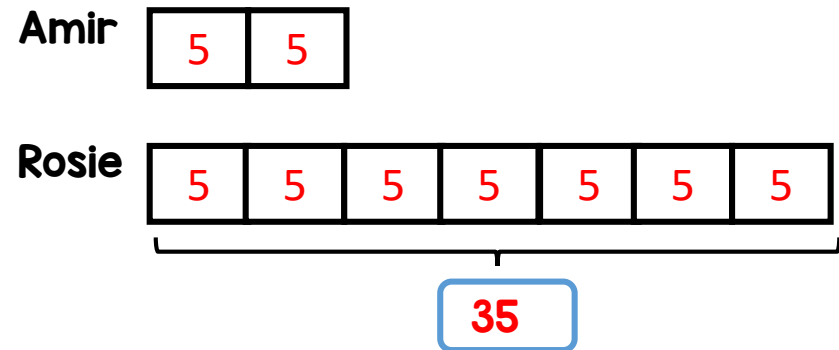
(c) How many sweets did they have altogether? 32



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.



(a) How many marbles does Amir receive? 10

(b) How many more marbles did Rosie get than Amir? 25

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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.

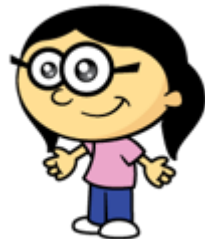
What mistake has Whitney made? **She divided by 9 instead of 4**

Correct her answer.

$$36 \div 4 = 9$$

$$5 \times 9 = 45$$

Whitney gets 45 stickers.



- 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?

**450**

- (a) 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. **2:7:5**