

SHARING 36 COOKIES IN RATIO 4:5

- 1 Add the parts of the ratio: 4 plus 5 equals 9 parts.
- 2 Work out one part: 36 divided by 9 equals 4 cookies per part.
- 3 Build each share: 4 parts is 16 cookies and 5 parts is 20 cookies.

 WARM-UP

Draw blank bar models and mark these values on them.

1. Draw a bar model for 120 sweets split in ratio 5:7 and mark the total 120.
2. Mark one part as 10 sweets on the bar model.
3. Shade 50 sweets for the first share and 70 for the second.

 PRACTICE

- 1 A shop has 40 apples to share with another in ratio 3:2.

Share 40 apples between two shops in the ratio 3:2.

- 2 In the supermarket 5 packs of biscuits cost 15 euro.

5 packs of biscuits cost 15 euro so how much for 8 packs?

- 3 A recipe for 4 people uses 12 carrots.

Scale a recipe for 4 people using 12 carrots to feed 8 people.

- 4 7 bottles of juice cost 28 euro in the shop.

7 bottles of juice cost 28 euro so how much for 9 bottles?

ALWAYS, SOMETIMES, NEVER

Always, sometimes or never true? Write A, S or N.

- a. When sharing a total in a ratio you add the parts first.
- b. If 4 pens cost €6, the unitary method finds that 6 pens cost €9.
- c. Scaling a recipe changes the ratio of the ingredients.
- d. 'Share €40 in the ratio 3:5' and '4 pens cost €6, find 6 pens' are solved the same way.

REFLECT

When is a ratio more useful than a fraction for describing a situation?