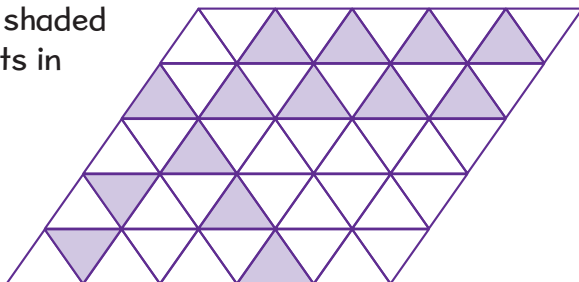


25 FURTHER PRACTICE - FRACTIONS, RATES AND RATIOS

- 1 a Find the ratio of shaded to unshaded parts in this diagram.
- b What proportion of the diagram is shaded?



- 2 Scott uses 12 onions to make $1\frac{1}{2}\ell$ of chutney.
- a How much chutney can be made with 48 onions.
- b How many onions are needed to make $4\frac{1}{2}\ell$ of chutney.

3

Pancakes

3 cups flour
2 tsp baking powder
1 cup milk

This is the recipe for 6 people.
How much of each ingredient would you need for 9 people?

- 4 The ratio of the dimensions of the picture shown are 7 : 3.
Find the length of the picture.



- 5 Three groups of pupils are surveyed.
Each has between 20 and 25 pupils.
In **Group A** the ratio of brown-eyed to blue-eyed pupils is 1 : 5.
In **Group B** the ratio is 2 : 3.
In **Group C** the ratio is 1 : 4.
Which group has the most blue-eyed pupils?
- 6 Albert has 3 dogs.
Their weights are: **Mantu 15 kg** **Pooch 10 kg** **Ruffle 5 kg**
They are fed little biscuits.
The number of biscuits fed is fed in the same ratio as their weights.
- a Ruffle is fed 2 biscuits in the morning.
How many are Mantu and Pooch fed?
- b Pooch is fed 30 biscuits at night.
How many does Mantu get at night?
- 7 A 20 m high tree casts a 15 m shadow.
At the same time a flag pole casts a 12 m shadow.
How high is the flagpole?
- 8 A barrel of juice can fill 150 glasses of 220 mℓ each.
How many 300 mℓ glasses could be filled?
- 9 The ratio of mares to foals in a field is 4 : 3.
If two of the mares are moved and replaced with two foals,
there are the same number of each.
How many horses are in the field?
- 10 **A** and **B** are in the ratio 3 : 4.
If **A** is reduced by 2 the ratio becomes 2 : 3.
Find **A** and **B**.