

1 Here are some counters.



a) What is the ratio of black to white counters?  :

b) What is the ratio of white to black counters?  :

c) What fraction of the counters are white?

d) What fraction of the counters are black?

What do you notice?



2 Here are some animals.



a) What fraction of the animals are cows?

b) What fraction of the animals are sheep?

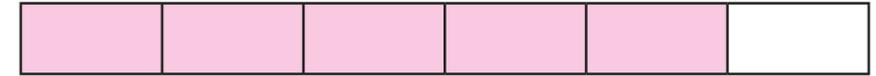
c) What is the ratio of cows to sheep?  :

d) What is the ratio of sheep to cows?  :

What do you notice?



3 Part of the bar model has been shaded.



a) What fraction of the bar model is shaded?

b) What fraction of the bar model is not shaded?

c) Write the ratio of shaded to non-shaded parts.  :

d) Write the ratio of non-shaded to shaded parts.  :

4 Here are some shapes.



a) What fraction of the shapes are circles?

b) What fraction of the shapes are stars?

c) What is the ratio of stars to circles?  :

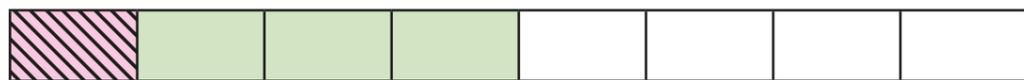
d) What is the ratio of circles to stars?  :

Can you find a different answer to each of these questions?

Compare with a partner.



- 5 The bar model shows the ratio 1 : 3 : 4

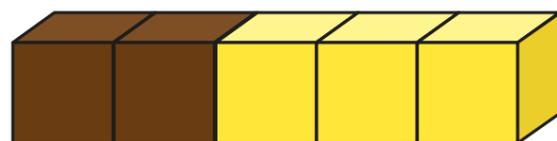


- a) What fraction of the bar model is striped?
- b) What fraction of the bar model is fully shaded?
- c) What fraction of the bar model is blank?

What do you notice about the fractions and the ratio?

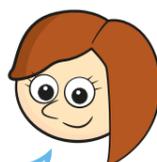


6



Jack

The fraction of brown cubes is  $\frac{2}{3}$  because the ratio of brown to yellow is 2 to 3



Rosie

The fraction of brown cubes is  $\frac{2}{5}$

Who is correct? \_\_\_\_\_

Explain your answer.

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- 7 Scott draws a bar model and divides it into 8 equal parts.



He shades 25% of the bar model.

What is the ratio of shaded to non-shaded parts?  :

- 8 A pencil case contains felt tips and pencils.

$\frac{3}{8}$  of the contents are pencils.

What is the ratio of felt tips to pencils?

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- 9 Ron has some limes and some strawberries.

The ratio of strawberries to limes is 5 : 1

- a) How do you know that Ron has more strawberries than limes?

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- b) What fraction of the fruits are strawberries?

- c) What fraction of the fruits are limes?

