Part of the bar has been shaded.

**3**

**Ratio and fractions**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |

1. Here are some counters.

Complete the sentences to describe the counters.

* 1. There are counters altogether.

1. What fraction of the bar is shaded?
2. What fraction of the bar is not shaded?
   1. There are

white counters.

* 1. Write the ratio of shaded to non-shaded parts. to

1. There are

black counters.

1. Write the ratio of non-shaded to shaded parts. to
2. 3 out of the 8 counters are
3. out of the 8 counters are white.

Here are some shapes.

**4**

1. Here are some animals.
   1. What fraction of the shapes are circles?
   2. What fraction of the shapes are stars?

Complete the sentences.

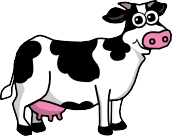
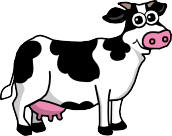
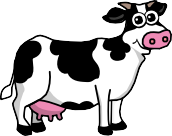
For every cows there are sheep. The ratio of cows to sheep is to

* 1. What is the ratio of stars to circles? to
  2. What is the ratio of circles to stars? to

of the animals are cows.

Can you find a different answer to each of these questions? Compare with a partner.

of the animals are sheep.



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**7**

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

He shades 25% of the bar.

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

to

A pencil case contains felt tips and pencils.

3 of the contents are pencils.

8

What is the ratio of felt tips to pencils?

to

**9**

Ron has some limes and strawberries.

The ratio of strawberries to limes is 5 to 1

**a)** How do you know he has more strawberries than limes?

**b)** What fraction of the fruits are strawberries?

**c)** What fraction of the fruits are limes?

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**8**

The bar model shows the ratio 1 to 3 to 4

**5**

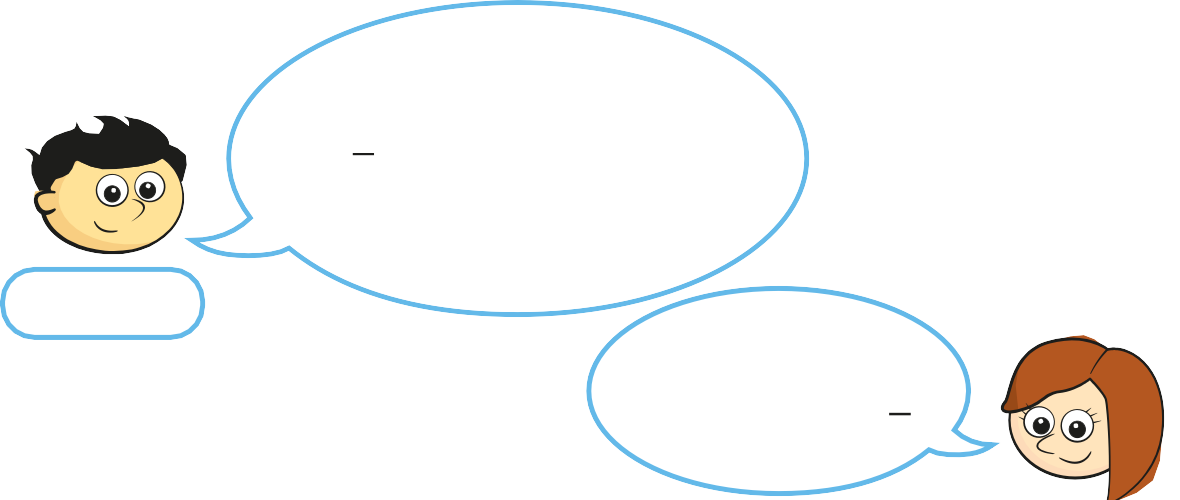
|  |  |  |  |  |  |  |  |
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| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |

Talk to a partner about how it shows this.

1. What fraction of the bar is striped?
2. What fraction of the bar is fully shaded?
3. What fraction of the bar is blank?

**6**



The fraction of brown cubes

3

brown to yellow is 2 to 3

is 2 because the ratio of

Jack

The fraction of

brown cubes is 2

5

Rosie

Who is correct? Explain your answer.