

STS Fractions of an amount:

What is the whole?
Divide by the denominator
Times by the numerator

LF: Fractions of an amount

Try it

Look at this example if you need a reminder of how to solve these types of questions:

$\frac{1}{3}$ of 36 =

| |
|--------------|
| 36 |
| 12 12 12 |

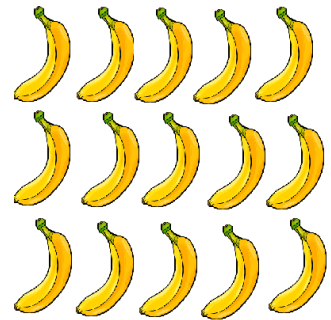
→ $\begin{array}{c} T \\ \circ \\ \circ \\ \circ \end{array}$ $\begin{array}{c} O \\ \circ \\ \circ \\ \circ \end{array}$ $3 \overline{)36} \begin{array}{r} 12 \\ \underline{36} \\ 0 \end{array}$

$12 \times 1 = 12$

$\frac{1}{3}$ of 36 = 12

1. $\frac{1}{4}$ of 48 =

2. = $\frac{1}{5}$ of



3. = $\frac{1}{4}$ of



4. $\frac{1}{8}$ of




=

Use it

1. There are 48 sheep in a field. One quarter of the sheep are eating grass. How many sheep are not eating grass?
2. Tanya has 36 books. She puts her books in piles. Each pile is a sixth of the total amount. How many books are in each pile?
3. Abi has a packet of sweets. She wants to work out $\frac{1}{8}$ of the amount of sweets. How many sweets would this be?



4. Find $\frac{1}{5}$ of Joe's marbles. 
I have divided the marbles into equal groups.
There are marbles in each group.
 $\frac{1}{5}$ of Joe's marbles is marbles.

5. Mary gives each child a third of her money and she has three children. How much money does each child get?

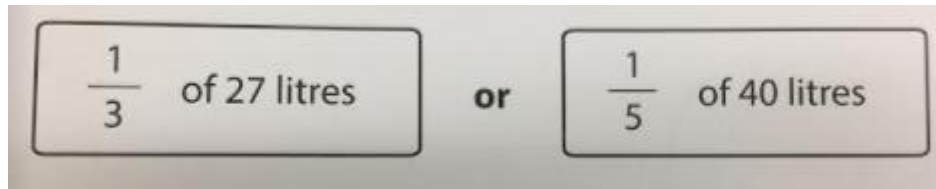


6.  0 72m

Jacob runs $\frac{1}{6}$ of the distance before he falls over. How far did Jacob get before he fell?

Prove it

1. Cara says $\frac{1}{3}$ of 27 litres is bigger than $\frac{1}{5}$ of 40 litres. Is she correct? Explain how you know



2.

Alison has a bottle of juice.

She drinks $\frac{3}{5}$ of the juice.

Sarah drinks 200 ml of the juice.



One fifth of the juice is left in the bottle.

How much did Alison drink?

What fraction of the bottle did Sarah drink?

What fraction of the drink is left?

3. Would you prefer $\frac{1}{4}$ of 48 chocolates or $\frac{1}{3}$ of 30 chocolates? Explain why.
4. Becky drank $\frac{1}{5}$ of the orange juice, Holly drank 300ml from the same bottle. There is $\frac{1}{5}$ left. How many ml were there in the bottle to start with?
5. Chloe went to buy some new shoes that cost £56. In Popper the shoes had £6 off but in Coolio they had $\frac{1}{8}$ off. Which shop had the biggest saving. Explain why.
6. $\frac{1}{4}$ of 48 is greater than $\frac{1}{5}$ of 35. Is this correct. Explain why.
7. Louise drank 200ml of squash. Owen drank $\frac{1}{6}$ of the squash. There was still $\frac{1}{6}$ of the lemonade left. How many ml were there to start with? Explain why.