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Drawing on a grid

Answers to Practice questions

The first page of a lesson is a maths problem. Don't look at the next page until you have had a go! The third and fourth pages give you practice, so you can check your understanding.



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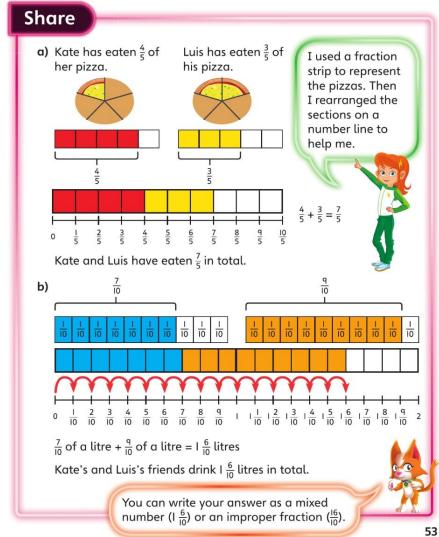
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Adding fractions

Discover



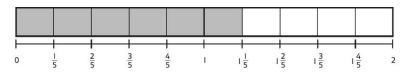
- a) What fraction of pizza have Kate and Luis eaten in total?
 - **b)** Kate's friends drink $\frac{7}{10}$ of a litre of juice. Luis's friends drink $\frac{q}{10}$ of a litre of juice. How much juice do they drink in total?

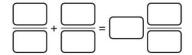


Adding fractions

Tino the horse eats $\frac{4}{5}$ of a bale of hay on Monday. He eats $\frac{2}{5}$ of a bale of hay on Tuesday.

What fraction does Tino eat altogether?

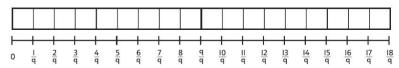


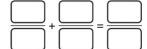




2 Alexis runs $\frac{7}{9}$ km, she has a rest and then runs a further $\frac{5}{9}$ km.

How far does Alexis run in total?





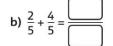


Work out the following calculations.

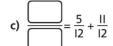
Give your answers as improper fractions.

a)
$$\frac{3}{4} + \frac{3}{4} = \frac{}{}$$

d)
$$\frac{3}{10} + \frac{1}{10} + \frac{q}{10} =$$



e)
$$\frac{3}{5} + \frac{3}{5} + \frac{3}{5} =$$



f) 8 ninths + 5 ninths =





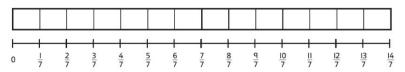


$$\frac{6}{7} + \frac{3}{7}$$

$$\frac{5}{7} + \frac{1}{7} + \frac{6}{7}$$

$$\frac{3}{7} + \frac{4}{7}$$

$$\frac{6}{7} + \frac{5}{7}$$



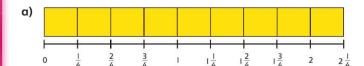
Subtracting fractions

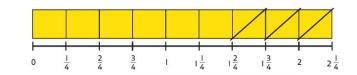
Discover



- a) Olivia uses $\frac{3}{4}$ kg of spaghetti to make a meal. How much spaghetti is left?
 - **b)** Does Olivia have enough spaghetti to make the same meal again tomorrow?

Share

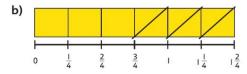




I used a fraction strip to represent the spaghetti and then crossed out $\frac{3}{4}$ to see what was left.

$$2\frac{1}{4}$$
 kg $-\frac{3}{4}$ kg = $1\frac{2}{4}$ kg

There are $I_{\frac{2}{4}}$ kg of spaghetti left.



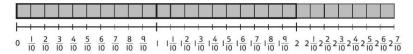
$$1\frac{2}{4}$$
 kg $-\frac{3}{4}$ kg $=\frac{3}{4}$ kg

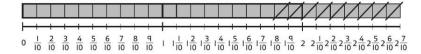
Olivia has enough spaghetti to make the same meal again tomorrow.

Subtracting fractions

Last week Rusty the dog ate 2 $\frac{7}{10}$ kg of dog food. This week he ate $\frac{q}{10}$ kg less than last week.

How much dog food did Rusty eat this week?

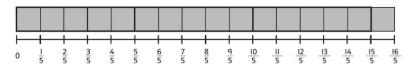






Rusty ate kg this week.

2 Cross out part of the fraction strip to help you work out the answer to $3\frac{1}{5} - \frac{4}{5}$.



$$3\frac{1}{5} - \frac{4}{5} =$$

3 Complete each calculation.

a)
$$1\frac{7}{8} - \frac{3}{8} =$$



b)
$$= 3 \frac{1}{q} - \frac{5}{6}$$



c)
$$2\frac{q}{|I|} - \frac{3}{|I|} - \frac{q}{|I|} =$$

I will do the subtractions in a different order to make this easier to work out.



- Millie has $2\frac{5}{7}$ litres of juice. Each day Millie drinks $\frac{6}{7}$ of a litre of juice.
 - a) How many days will the juice last?



Millie has enough juice for days.

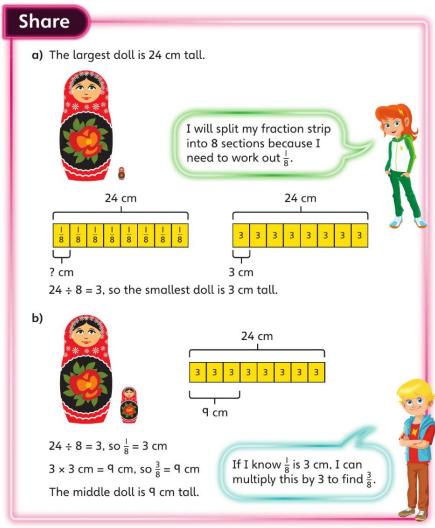
b) How much juice is left over?

There is of a litre of juice left over.

Calculating fractions of a quantity



- a) The smallest doll is $\frac{1}{8}$ of the height of the largest doll. How tall is the smallest doll?
 - **b)** The middle doll is $\frac{3}{8}$ of the height of the largest doll. How tall is the middle doll?



Calculating fractions of a quantity

Emily has three different-sized teddy bears – a small teddy bear, a medium teddy bear and a large teddy bear.

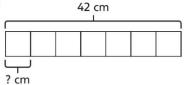
The large teddy bear is 42 cm tall.



a) The small teddy bear is $\frac{1}{7}$ the height of the large teddy bear.

How tall is the small teddy bear?

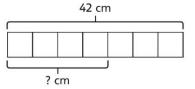
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The small teddy bear is cm tall.

b) The medium teddy bear is $\frac{4}{7}$ the height of the large teddy bear.

How tall is the medium teddy bear?



The medium teddy bear is ____ cm tall.

2 Complete each question.

a)
$$\frac{1}{3}$$
 of 30 m = m

b)
$$\frac{2}{3}$$
 of 27 kg = kg

c)
$$\frac{5}{6}$$
 of £18 = £



3 Is this statement true or false?

$$\frac{3}{8}$$
 of 24 = $\frac{1}{4}$ of 36

Show your working out and circle your answer.



4 Match each calculation to the correct answer.

$$\frac{2}{3}$$
 of 18

$$\frac{1}{9}$$
 of 18

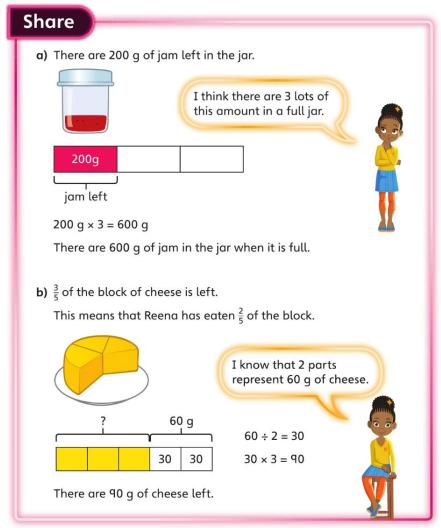
$$\frac{5}{6}$$
 of 18

$$\frac{7}{18}$$
 of 18

Solving problems – fraction of a quantity

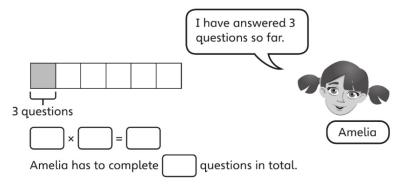


- (1) a) There are 200 g of jam left in the jar.
 - How many grams of jam are in the jar when it is full?
 - b) Reena eats 60 g of cheese.
 - $\frac{3}{5}$ of the block of cheese is left.
 - How many grams of cheese are left?

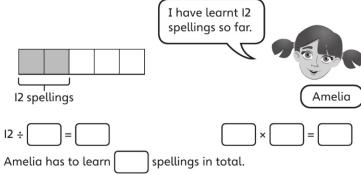


Solving problems – fraction of a quantity

a) Amelia has completed $\frac{1}{6}$ of her maths homework. How many questions in total does Amelia need to complete?



b) Amelia has learnt $\frac{2}{5}$ of her spellings homework. How many spellings does she have to learn in total?



2	a) $\frac{3}{5}$ of a number is 15. What is the number? The number is .	15
	b) $\frac{4}{9}$ of a number is 48.	
	What is the number?	
	The number is	
3	A box contains some buttons.	
	$\frac{1}{5}$ of the buttons are taken out.	
	There are 24 buttons left.	
	How many buttons were there at the start?	
	There were buttons at the start.	
4	Ethan has some money.	
	He gives $\frac{5}{7}$ of the money to his friend.	•
	He has £12 left.	
	How much money does he give to his friend?	
	Ethan gives £ to his friend.	