



Add 2 or more fractions

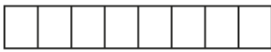


1 Complete the additions.

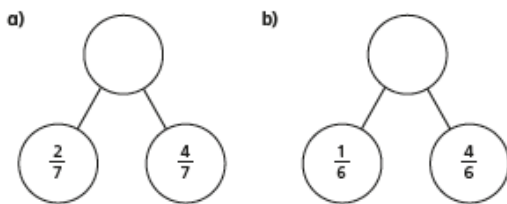
a)  $\frac{1}{5} + \frac{2}{5} = \square$

b)  $\frac{1}{5} + \frac{3}{5} = \square$

c)  $\frac{3}{8} + \frac{3}{8} = \square$

d)  $\frac{3}{8} + \frac{1}{8} = \square$

2 Complete the part-whole models.



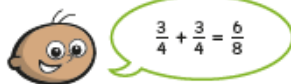
4 $\frac{\square}{4} + \frac{\square}{4} = \frac{9}{4}$

What could the missing numerators be?
 Give four different possibilities.

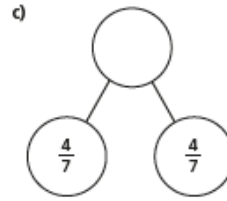
$\frac{\square}{4} + \frac{\square}{4} = \frac{9}{4}$ $\frac{\square}{4} + \frac{\square}{4} = \frac{9}{4}$

$\frac{\square}{4} + \frac{\square}{4} = \frac{9}{4}$ $\frac{\square}{4} + \frac{\square}{4} = \frac{9}{4}$

5 Tommy is adding fractions.



Explain why Tommy is incorrect.



d) Which part-whole model is the odd one out?
 Explain your choice to a partner.
 Did you both have the same answer?

3 Complete the additions.

a) $\frac{3}{7} + \frac{3}{7} = \square$ e) $\frac{8}{11} + \frac{6}{11} = \square = \square$

b) $\frac{3}{7} + \frac{4}{7} = \square = \square$ f) $\frac{4}{11} + \frac{4}{11} + \frac{6}{11} = \square = \square$

c) $\frac{4}{5} + \frac{3}{5} = \square = \square$ g) $\frac{3}{11} + \frac{3}{11} + \frac{8}{11} = \square = \square$

d) $\frac{8}{5} + \frac{6}{5} = \square = \square$ h) $\frac{3}{7} + \frac{3}{7} + \frac{8}{7} = \square = \square$

6 Complete the number sentences.

a) $\frac{3}{8} + \frac{\square}{8} = \frac{7}{8}$ e) $\frac{4}{9} + \frac{\square}{9} = \frac{13}{9} = 1 \frac{\square}{9}$

b) $\frac{3}{8} + \frac{\square}{8} = 1$ f) $\frac{4}{9} + \frac{\square}{9} = \frac{\square}{9} = 1 \frac{7}{9}$

c) $\frac{3}{16} + \frac{\square}{\square} = 1$ g) $\frac{5}{7} + \frac{\square}{7} + \frac{5}{7} = 2$

d) $\frac{4}{9} + \frac{\square}{9} = \frac{11}{9} = 1 \frac{\square}{9}$ h) $\frac{5}{7} + \frac{\square}{7} + \frac{5}{7} = 3$

7 Rosie, Whitney and Teddy have each been for a walk.

Rosie walked $\frac{5}{8}$ km.

Whitney walked $\frac{7}{8}$ km.

Teddy walked $\frac{3}{8}$ km.

a) How far did they walk altogether? km

b) Jack also went for a walk.
 Altogether the four children walked 3 km.
 How far did Jack walk? km



Subtract 2 fractions



1 Complete the subtractions.



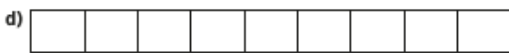
$$\frac{4}{5} - \frac{1}{5} = \square$$



$$\frac{4}{5} - \frac{2}{5} = \square$$



$$\frac{5}{7} - \frac{3}{7} = \square$$



$$\frac{7}{9} - \frac{4}{9} = \square$$

4 Jack has $2\frac{1}{4}$ kg of potatoes.

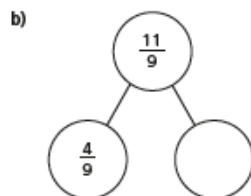
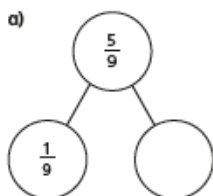
He uses $\frac{5}{4}$ kg of potatoes.

How many kilograms does he have left?

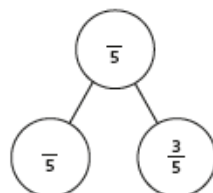
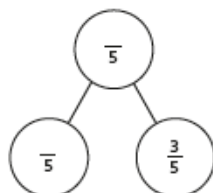


Jack has kg left.

5 Complete the part-whole models.



6 Complete the part-whole model in two different ways.



2 Complete the calculations.

a) $\frac{7}{10} - \frac{3}{10} = \square$

e) $\frac{9}{11} - \frac{3}{11} = \square$

b) $\frac{2}{3} - \frac{1}{3} = \square$

f) $\frac{6}{7} - \frac{4}{7} = \square$

c) $\frac{6}{6} - \frac{6}{6} = \square$

g) $\frac{8}{93} - \frac{2}{93} = \square$

d) $\frac{3}{4} - \frac{1}{4} = \square$

h) $\frac{10}{991} - \frac{3}{991} = \square$

3 Complete the subtractions

a) $\frac{9}{5} - \frac{6}{5} = \square$

e) $\frac{8}{3} - \frac{4}{3} = \square = \square$

b) $\frac{9}{5} - \frac{5}{5} = \square$

f) $\frac{11}{3} - \frac{4}{3} = \square = \square$

c) $\frac{9}{5} - \frac{4}{5} = \square = \square$

g) $\frac{14}{3} - \frac{4}{3} = \square = \square$

d) $\frac{9}{2} - \frac{4}{2} = \square = \square$

h) $\frac{15}{3} - \frac{5}{3} = \square = \square$

7 Fill in the missing numerators.

a) $\frac{10}{11} - \frac{\square}{11} = \frac{7}{11}$

d) $\frac{15}{4} - \frac{\square}{4} = 2$

b) $\frac{10}{11} - \frac{\square}{11} = \frac{7}{11} - \frac{4}{11}$

e) $\frac{9}{4} - \frac{1}{4} = \frac{\square}{4} + 1$

c) $\frac{10}{11} - \frac{4}{11} = \frac{\square}{11} - \frac{7}{11}$

f) $\frac{11}{4} - \frac{3}{4} = \frac{11}{3} - \frac{\square}{3}$

8 Alex and Annie are taking turns playing a computer game.

Annie plays for a total of $2\frac{1}{4}$ hours.

Annie plays for $\frac{3}{4}$ of an hour more than Alex.

How much time do they spend in total playing on the game?

hours

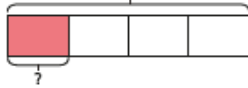


Fractions of a quantity



1 Complete the number sentences.

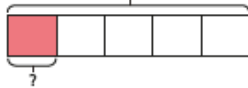
a) $\frac{1}{4}$ of 20 =



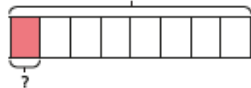
d) $\frac{1}{4}$ of 40 =



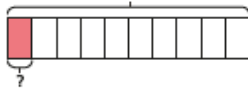
b) $\frac{1}{5}$ of 20 =



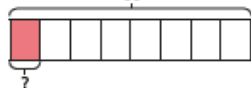
e) $\frac{1}{8}$ of 40 =



c) $\frac{1}{10}$ of 20 =



f) $\frac{1}{8}$ of 80 =



3 Complete the number sentences.

a) $\frac{1}{4}$ of 24 =
 $\frac{3}{4}$ of 24 =

c) $\frac{1}{8}$ of 32 =
 $\frac{5}{8}$ of 32 =

b) $\frac{1}{7}$ of 35 =
 $\frac{3}{7}$ of 35 =
 $\frac{5}{7}$ of 35 =

d) $\frac{5}{8}$ of 64 =
 $\frac{7}{8}$ of 64 =
 $\frac{10}{8}$ of 64 =

4 Match the calculations to the answers.

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

18

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

15

$\frac{9}{10}$ of 20

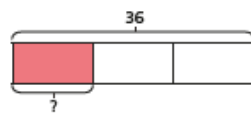
16

$\frac{4}{5}$ of 20

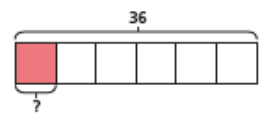
12



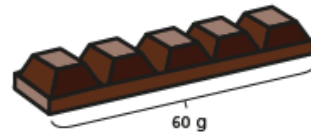
g) $\frac{1}{3}$ of 36 =



h) $\frac{1}{6}$ of 36 =



2 Filip has a chocolate bar with 5 equal pieces. The chocolate bar weighs 60 g.



a) What is the mass of one piece?

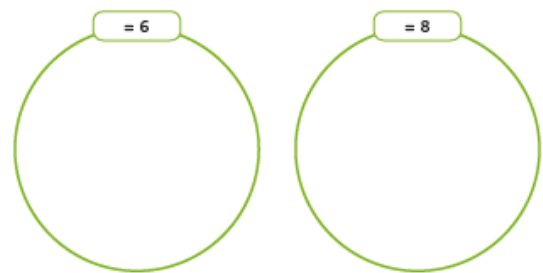
The mass of one piece is g.

b) Filip eats $\frac{3}{5}$ of the bar of chocolate. How many grams does Filip eat?

Filip eats g of chocolate.

5 a) Write each calculation in the correct circle.

$\frac{1}{2}$ of 16 $\frac{1}{4}$ of 24 $\frac{2}{3}$ of 9 $\frac{3}{2}$ of 4 $\frac{1}{6}$ of 48



b) Write one more calculation in each circle.

6 Write <, > or = to compare the calculations.

a) $\frac{2}{7}$ of 21 $\frac{2}{3}$ of 21

b) $\frac{3}{5}$ of 40 $\frac{2}{3}$ of 36

c) $\frac{6}{8}$ of 40 $\frac{3}{4}$ of 40

d) $\frac{6}{10}$ of 50 $\frac{3}{10}$ of 100



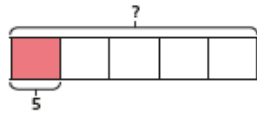


Calculate quantities

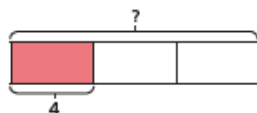
1 Match the calculations to the bar models.

Work out the missing quantities.

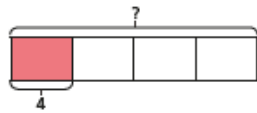
$\frac{1}{4}$ of = 5



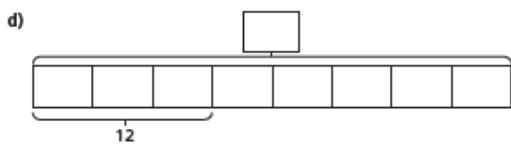
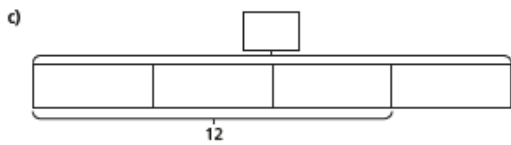
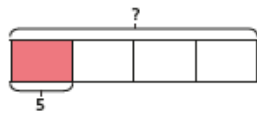
$\frac{1}{4}$ of = 4



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



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



4 Complete the calculations.

a) $\frac{1}{2}$ of = 30

e) $\frac{3}{7}$ of = 15

b) $\frac{1}{2}$ of = 15

f) $\frac{5}{7}$ of = 15

c) $\frac{1}{4}$ of = 15

g) $\frac{5}{7}$ of = 35

d) $\frac{3}{4}$ of = 15

h) $\frac{7}{5}$ of = 35

2 Complete the sentences.

a) When one fifth is 1, the whole is

When one fifth is 10, the whole is

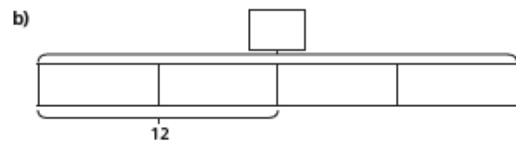
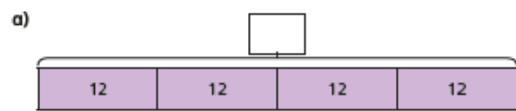
When one fifth is 20, the whole is

b) When $\frac{1}{7}$ is 2, the whole is

When $\frac{1}{7}$ is 4, the whole is

When $\frac{1}{7}$ is 8, the whole is

3 Complete the bar models and fill in the whole.



5 Dora and Mo have a full bottle of juice.

Dora drinks $\frac{2}{5}$ of the juice.

Mo drinks $\frac{1}{5}$ of the juice.

There is 150 ml of juice left in the bottle.

How much juice was in the full bottle?

ml

6 Rosie and Ron are collecting red and blue counters.

They have the same number of blue counters.

They have a different number of red counters.



Rosie

I have 18 counters altogether. $\frac{2}{3}$ are blue.

$\frac{3}{4}$ of my counters are blue.



Ron

a) How many counters does Ron have altogether?

b) How many red counters do they each have?

Rosie has red counters.

Ron has red counters.



Friday 12th June 2020

Consolidation day!

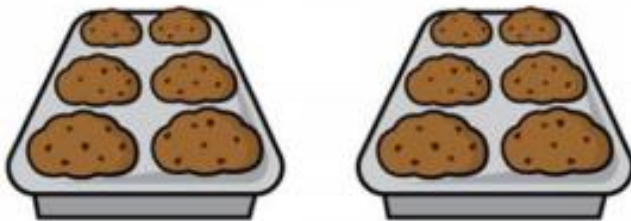
TTRS- complete minimum of 5 games. Where will you end up on the leaderboard this week?

These are activities to keep our maths learning 'sticky'. Select at least 2 of the activities below to complete your maths lesson today.

- Numbots
- BBC Bitesize game- [Guardians Defenders of Mathematica](#)
- Maths 2Dos on Purple Mash

Challenge 1

Eric bakes these two trays of muffins.



He eats 2 muffins.

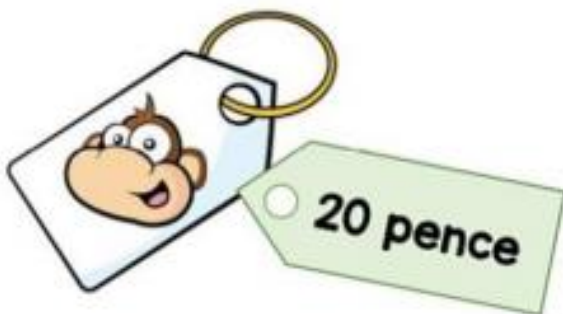
His dad eats 3 muffins.

His sister eats 4 muffins.

How many muffins does he have left?

Challenge 2

Lola buys this key ring.



Her mum gives a quarter of the money.

She pays for the rest herself.

How much does she pay herself?

Challenge 3



How old is the teacher?