

YEAR 4- MATHS

WB- Monday 1st June

We are using White Rose for maths this week- Summer Term, Week 6.
The link is the same all week, each day has the name of the lesson to complete.

<https://whiterosemaths.com/homelearning/year-4/>

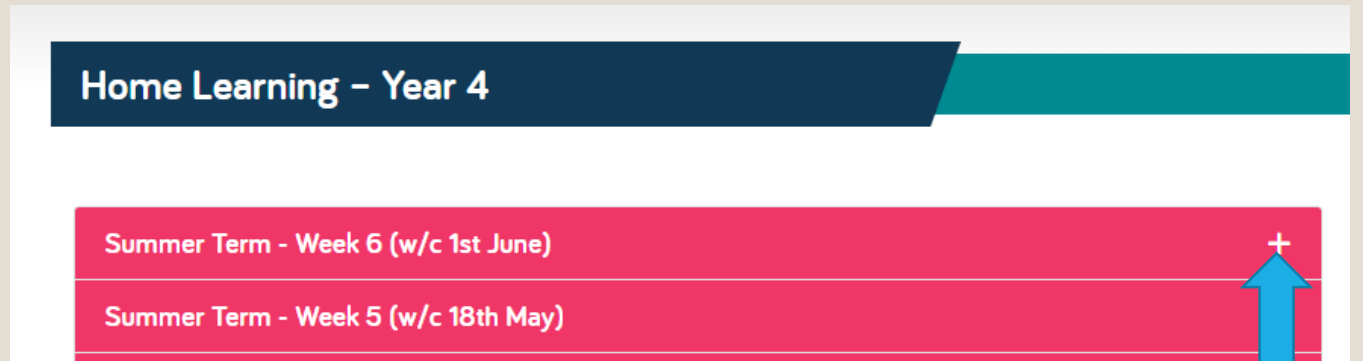
Monday- Add 2 or more fractions.

Tuesday- Subtract fractions.

Wednesday- Fractions of quantities.

Thursday- Calculate quantities.

Friday- Maths challenge.



Add 2 or more fractions

1 Complete the additions.

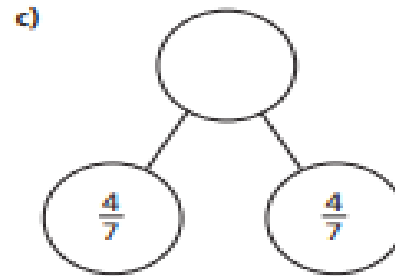
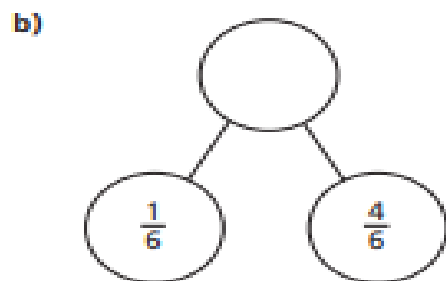
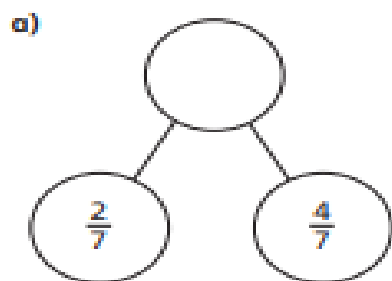
a)  $\frac{1}{5} + \frac{2}{5} = \square$

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.



Day 1

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) $\frac{3}{7} + \frac{3}{7} + \frac{8}{7} = \square = \square$

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.



$$\frac{1}{4} + \frac{1}{4} = \frac{1}{8}$$

Explain why Tommy is incorrect.



Day 1

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?

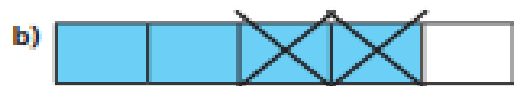
 km

Subtract 2 fractions

1 Complete the subtractions.



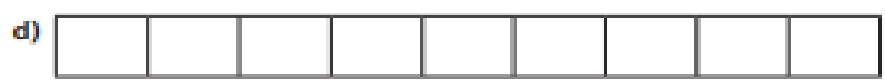
$$\frac{4}{5} - \frac{1}{5} = \square$$



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



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



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



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

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

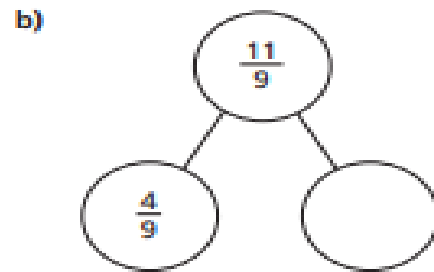
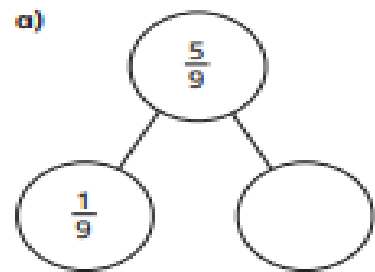
He uses $\frac{5}{4}$ kg of potatoes.

How many kilograms does he have left?

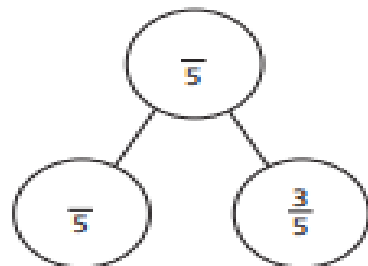
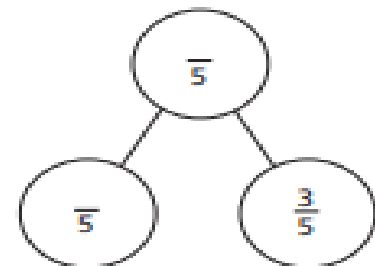


Jack has kg left.

5 Complete the part-whole models.



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



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.

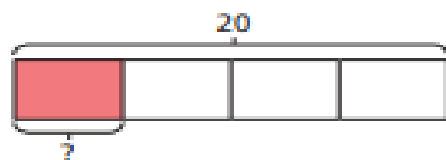
How much time do they spend in total playing on the game?

hours

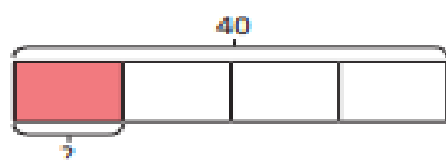


1 Complete the number sentences.

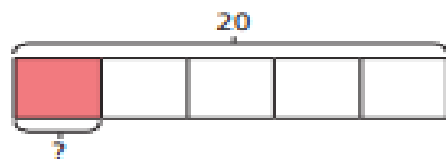
a) $\frac{1}{4}$ of 20 =



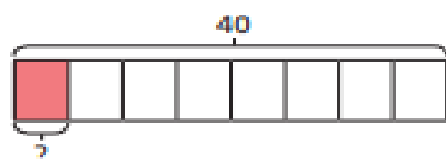
d) $\frac{1}{4}$ of 40 =



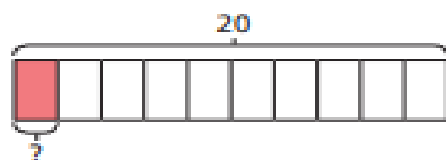
b) $\frac{1}{5}$ of 20 =



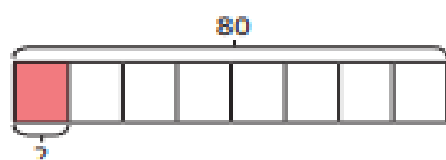
e) $\frac{1}{8}$ of 40 =



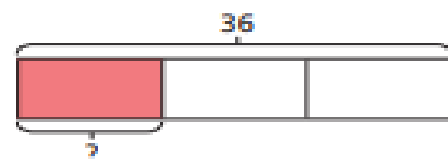
c) $\frac{1}{10}$ of 20 =



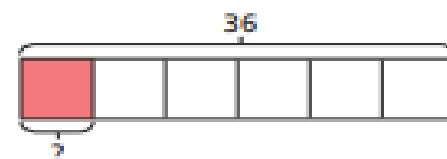
f) $\frac{1}{8}$ of 80 =



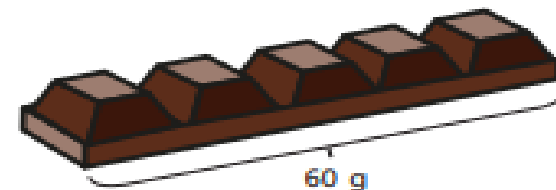
g) $\frac{1}{3}$ of 36 =



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.

3 Complete the number sentences.

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

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

$\frac{3}{4}$ of 24 =

$\frac{5}{8}$ of 32 =

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

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

$\frac{3}{7}$ of 35 =

$\frac{7}{8}$ of 64 =

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

$\frac{10}{8}$ 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



5 a) Write each calculation in the correct circle.

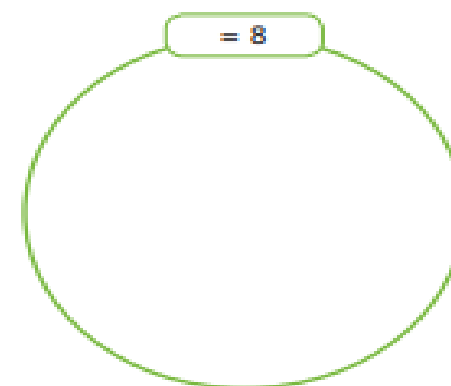
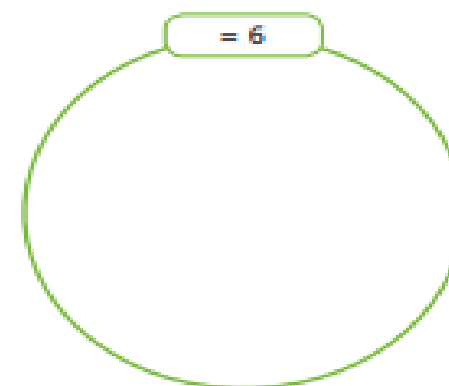
$\frac{1}{2}$ of 16

$\frac{1}{4}$ 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

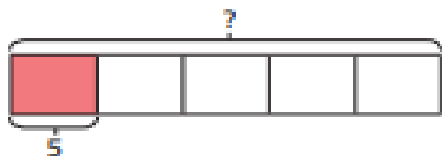
d) $\frac{6}{10}$ of 50 $\frac{3}{10}$ of 100

Calculate quantities

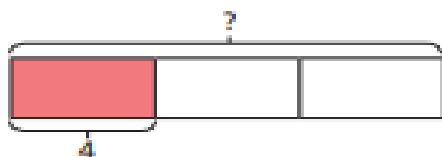
1 Match the calculations to the bar models.

Work out the missing quantities.

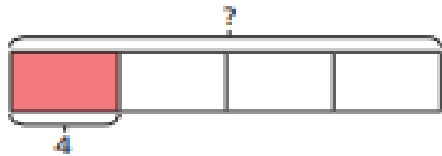
$\frac{1}{4}$ of = 5



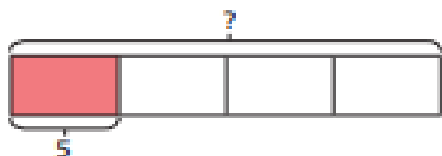
$\frac{1}{4}$ of = 4



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



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



2 Complete the sentences.

a) When one fifth is 1, the whole is

When one fifth is 10, the whole is

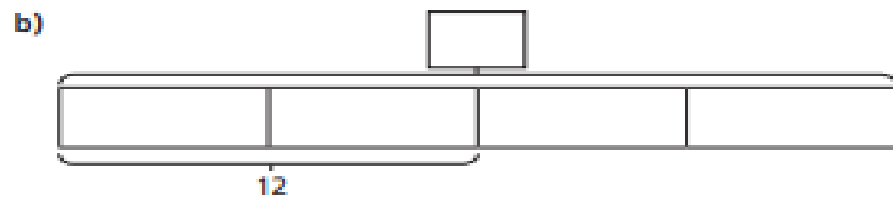
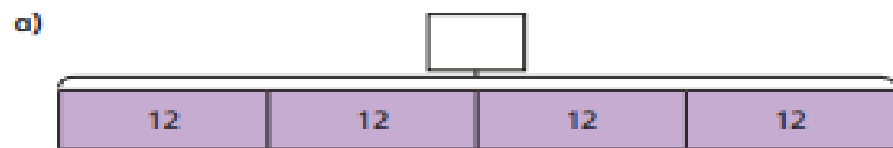
When one fifth is 20, the whole is

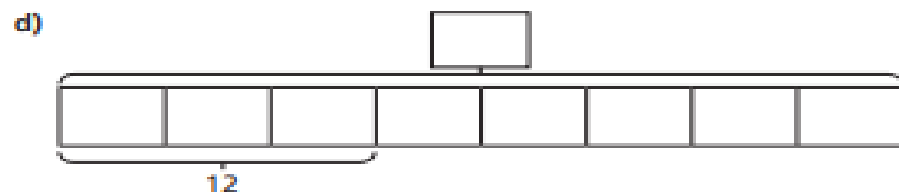
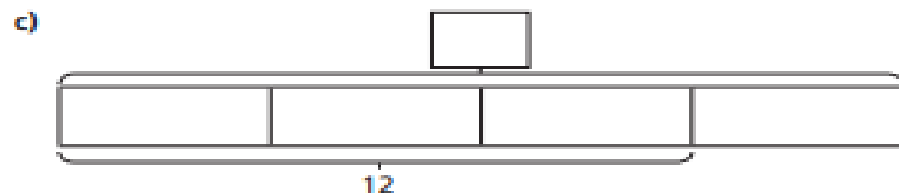
b) When $\frac{1}{7}$ is 2, the whole is

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.





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) $\frac{2}{5}$ of = 35

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.

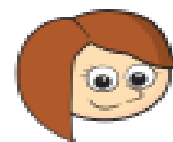
How much juice was in the full bottle?

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.