Maths Planning and Ideas

Week Commencing: 1st June 2020

Year Group: 4

Mathematical Focus: Fractions

	Monday	Tuesday	Wednesday	Thursday	Friday
Area of Learning	Add 2 or more fractions	Subtract 2 fractions	Fractions of quantities	Calculate quantities	Friday Maths Challenge
Activity	**Starter:** Times Table Rockstar *Battle of the Bands and Garage challenges have been set for Y4 children.* **Main:** White Rose Maths - Watch Summer Week 6 Lesson **1** https://whiterosemaths.com/homelearning/year-4/ You might want to pause it and make notes. Or even rewind and watch bits again. **Independent:** The questions below the plan can be completed by children independently.	**Starter:** Times Table Rockstar *Battle of the Bands and Garage challenges have been set for Y4 children.* **Main:** White Rose Maths - Watch Summer Week 6 Lesson **2** https://whiterosemaths.com/homelearning/year-4/ You might want to pause it and make notes. Or even rewind and watch bits again. **Independent:** The questions below the plan can be completed by children independently.	**Starter:** Times Table Rockstar *Battle of the Bands and Garage challenges have been set for Y4 children.* **Main:** White Rose Maths - Watch Summer Week 6 Lesson **3** https://whiterosemaths.com/homelearning/year-4/ You might want to pause it and make notes. Or even rewind and watch bits again. **Independent:** The questions below the plan can be completed by children independently.	**Starter:** Times Table Rockstar *Battle of the Bands and Garage challenges have been set for Y4 children.* **Main:** White Rose Maths - Watch Summer Week 6 Lesson **4** https://whiterosemaths.com/homelearning/year-4/ You might want to pause it and make notes. Or even rewind and watch bits again. **Independent:** The questions below the plan can be completed by children independently.	**Starter:** Times Table Rockstar *Battle of the Bands and Garage challenges have been set for Y4 children.* **Main:** White Rose Maths - Watch Summer Week 6 Lesson **5** – Daily Challenge https://whiterosemaths.com/homelearning/year-4/ Good luck!

	Answers: Answers can be found here: https://resources.whiterosemaths.com/wp-content/uploads/2020/05/Lesson-1-Answers-Add-2-or-more-fractions-2019.pdf No peeking until after you have had a go.	**Answers:** Answers can be found here: https://resources.whiterosemaths.com/wp-content/uploads/2020/05/Lesson-2-Answers-Subtract-2-fractions-2019.pdf No peeking until after you have had a go.	**Answers:** Answers can be found here: https://resources.whiterosemaths.com/wp-content/uploads/2020/05/Lesson-3-Answers-Fractions-of-a-quantity-2019.pdf No peeking until after you have had a go.	**Answers:** Answers can be found here: https://resources.whiterosemaths.com/wp-content/uploads/2020/05/Lesson-4-Answers-Calculate-quantities-2019.pdf No peeking until after you have had a go.	

01.06.2020

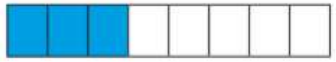
LC: Can you add two or more fractions?

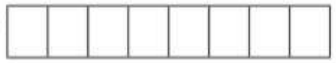
Add 2 or more fractions

1 Complete the additions.

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

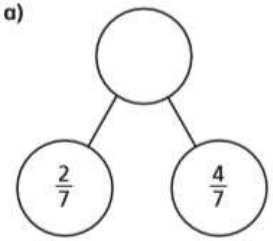
b)  $\frac{1}{5} + \frac{3}{5} = \square$

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

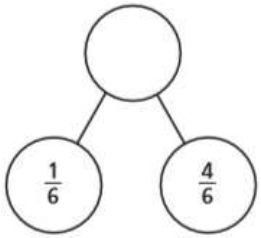
d)  $\frac{3}{8} + \frac{1}{8} = \square$

2 Complete the part-whole models.

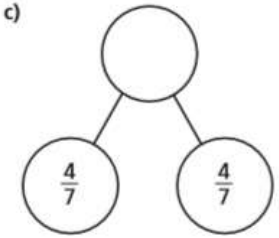
a)



b)



c)



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

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

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

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

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

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

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

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

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

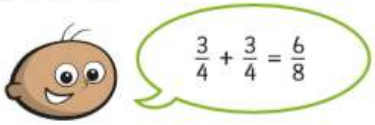
What could the missing numerators be?

Give four different possibilities.

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

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

5 Tommy is adding fractions.



Explain why Tommy is incorrect.

6 Complete the number sentences.

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

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

c) $\frac{3}{16} + \frac{\square}{\square} = 1$

d) $\frac{4}{9} + \frac{\square}{9} = \frac{11}{9} = 1\frac{\square}{9}$

e) $\frac{4}{9} + \frac{\square}{9} = \frac{13}{9} = 1\frac{\square}{9}$

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

g) $\frac{5}{7} + \frac{\square}{7} + \frac{5}{7} = 2$

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? $\square$ km

b) Jack also went for a walk.

Altogether the four children walked 3 km.

How far did Jack walk? $\square$ km

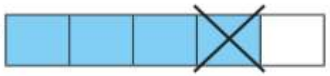
02.06.2020

LC: Can you subtract fractions?

Subtract 2 fractions

1 Complete the subtractions.

a)



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

b)

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

c)

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

d)

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

2 Complete the calculations.

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

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

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

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

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

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

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

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

3 Complete the subtractions

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

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

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

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

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

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

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

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

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

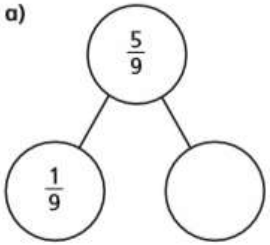
He uses $\frac{5}{4}$ kg of potatoes.

How many kilograms does he have left?

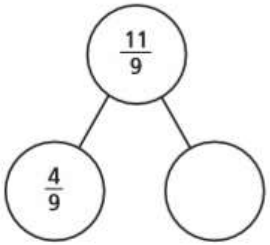
Jack has ☐ kg left.

5 Complete the part-whole models.

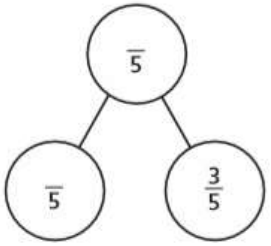
a)

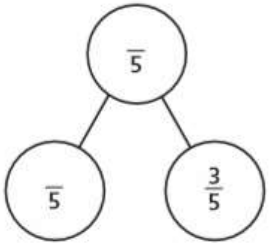


b)



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





7 Fill in the missing numerators.

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

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

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

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

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

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

03.06.2020

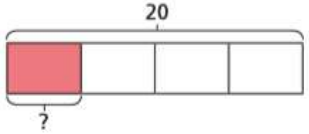
LC: Can you find fractions of quantities?

Fractions of a quantity

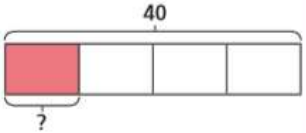
White Rose Maths

1 Complete the number sentences.

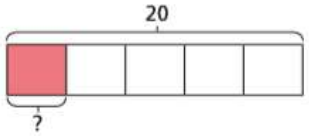
a) $\frac{1}{4}$ of 20 = ☐



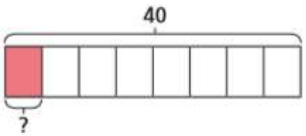
d) $\frac{1}{4}$ of 40 = ☐



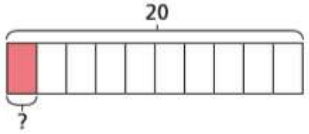
b) $\frac{1}{5}$ of 20 = ☐



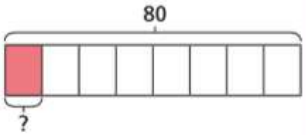
e) $\frac{1}{8}$ of 40 = ☐



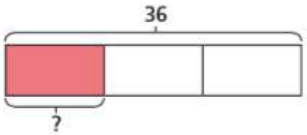
c) $\frac{1}{10}$ of 20 = ☐



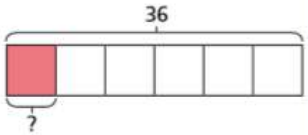
f) $\frac{1}{8}$ of 80 = ☐



g) $\frac{1}{3}$ of 36 = ☐

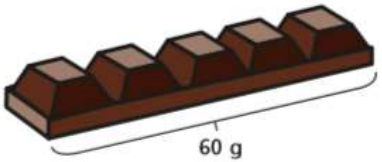


h) $\frac{1}{6}$ of 36 = ☐



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 = ☐

$\frac{3}{4}$ 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 = ☐

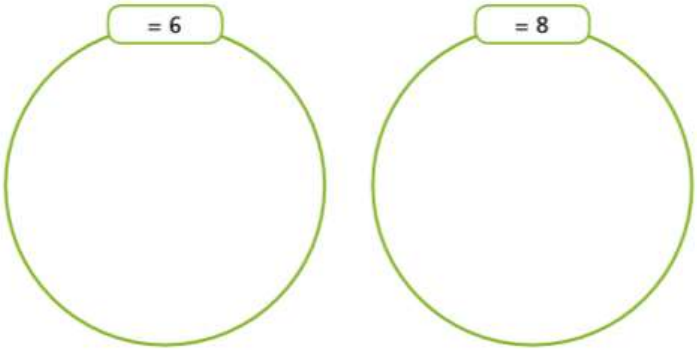
$\frac{10}{8}$ of 64 = ☐

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

5 a) Write each calculation in the correct circle.

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

04.06.202

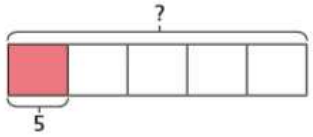
LC: Can you calculate quantities?

Calculate quantities

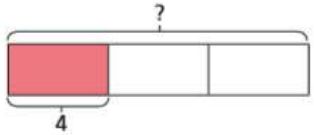
1 Match the calculations to the bar models.

Work out the missing quantities.

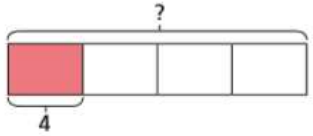
$\frac{1}{4}$ of $\square$ = 5



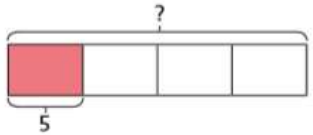
$\frac{1}{4}$ of $\square$ = 4



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



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



2 Complete the sentences.

a) When one fifth is 1, the whole is $\square$

When one fifth is 10, the whole is $\square$

When one fifth is 20, the whole is $\square$

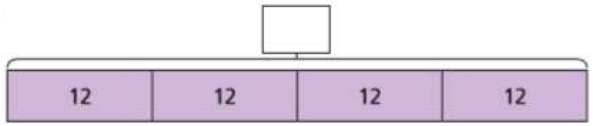
b) When $\frac{1}{7}$ is 2, the whole is $\square$

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

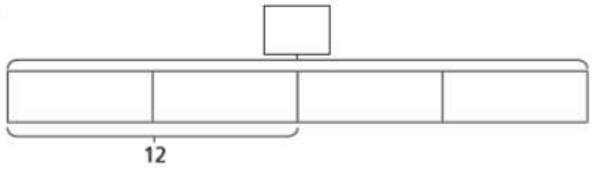
When $\frac{1}{7}$ is 8, the whole is $\square$

3 Complete the bar models and fill in the whole.

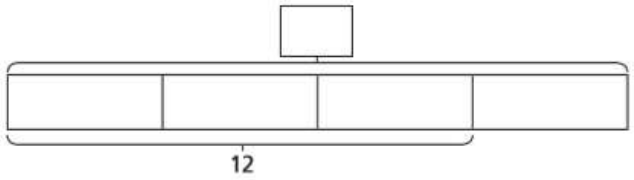
a)



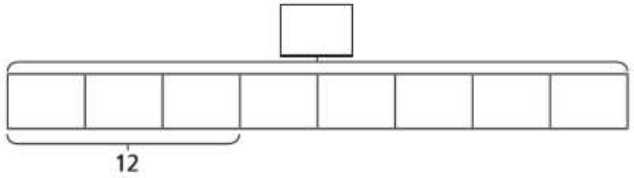
b)



c)



d)



4 Complete the calculations.

a) $\frac{1}{2}$ of ☐ = 30

b) $\frac{1}{2}$ of ☐ = 15

c) $\frac{1}{4}$ of ☐ = 15

d) $\frac{3}{4}$ of ☐ = 15

e) $\frac{3}{7}$ of ☐ = 15

f) $\frac{5}{7}$ of ☐ = 15

g) $\frac{5}{7}$ of ☐ = 35

h) $\frac{7}{5}$ 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.

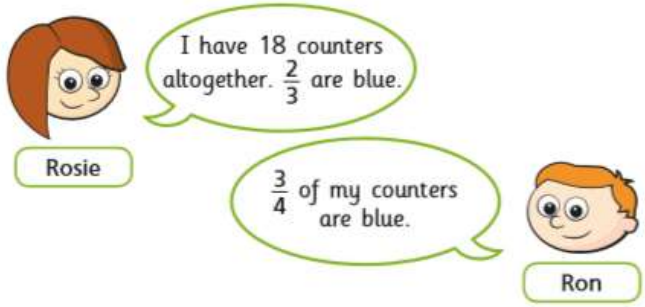
How much juice was in the full bottle?

☐ 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.



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.

Where can I complete further work?

Twinkl – Subscription service used by schools is offering a free premium service for teachers, parents and children to use whilst schools are closed. Enter the code **UKTWINKLHELPS** for access to worksheets, PowerPoints and interactive games to support all areas of learning.

Classroom Secrets – Free Maths, Reading and Grammar home learning packs and interactive resources for all ages.

White Rose Maths – Free Maths home learning resources for all ages. Watch the videos and try the questions.

Primary Stars – Free Maths home learning packs for Year 1 and 2.

BBC Bitesize Primary – Free learning resources available for KS1 and KS2 across all subjects.

I See Maths – Free daily home maths lessons hosted by Gareth Metcalfe. Follow the link for videos, information and resources.

Top Marks – Free educational resources and games for English and Maths.

ICT Games – Free educational resources and games for English and Maths.