

Maths Planning and Ideas



Week Commencing: 18th May 2020

Year Group: 4

Mathematical Focus: Fractions

	Monday	Tuesday	Wednesday	Thursday	Friday
Area of Learning	What is a fraction?	Equivalent Fractions	Equivalent Fractions	Fractions greater than 1	Friday Maths Challenge
Activity	<p>Starter:</p> <p>Times Table Rockstar</p> <p><i>Battle of the Bands and Garage challenges have been set for Y4 children.</i></p> <p>Main:</p> <p>We are not using the online White Rose lesson today. Please use the activities below.</p> <p>Work through the following four activities online to help you recap on fractions:</p> <p>What is a fraction? https://www.bbc.co.uk/bitesize/topics/z9sycdm/articles/zhmjy9q</p>	<p>Starter:</p> <p>Times Table Rockstar</p> <p><i>Battle of the Bands and Garage challenges have been set for Y4 children.</i></p> <p>Main:</p> <p>White Rose Maths - Watch Summer Week 5 Lesson 2 https://whiterosemaths.com/homelearning/year-4/</p> <p>You might want to pause it and make notes. Or even rewind and watch bits again.</p> <p>Independent:</p> <p>The questions below the plan can be completed by children independently.</p>	<p>Starter:</p> <p>Times Table Rockstar</p> <p><i>Battle of the Bands and Garage challenges have been set for Y4 children.</i></p> <p>Main:</p> <p>White Rose Maths - Watch Summer Week 5 Lesson 3 https://whiterosemaths.com/homelearning/year-4/</p> <p>You might want to pause it and make notes. Or even rewind and watch bits again.</p> <p>Independent:</p> <p>The questions below the plan can be completed by children independently.</p>	<p>Starter:</p> <p>Times Table Rockstar</p> <p><i>Battle of the Bands and Garage challenges have been set for Y4 children.</i></p> <p>Main:</p> <p>White Rose Maths - Watch Summer Week 5 Lesson 4 https://whiterosemaths.com/homelearning/year-4/</p> <p>You might want to pause it and make notes. Or even rewind and watch bits again.</p> <p>Independent:</p> <p>The questions below the plan can be completed by children independently.</p>	<p>Starter:</p> <p>Times Table Rockstar</p> <p><i>Battle of the Bands and Garage challenges have been set for Y4 children.</i></p> <p>Main:</p> <p>White Rose Maths - Watch Summer Week 4 Lesson 5 – Daily Challenge https://whiterosemaths.com/homelearning/year-4/</p> <p>Good luck!</p>

	<p>How do I write fractions? https://www.bbc.co.uk/bitesize/topics/z9sycdm/articles/zh3xxyc</p> <p>Independent:</p> <p>The questions below the plan can be completed by children independently.</p> <p>Answers:</p> <p>Answers for today can be found at the end of the document.</p> <p>No peeking until after you have had a go.</p>	<p>Answers:</p> <p>Answers can be found here: https://resources.whiterosemaths.com/wp-content/uploads/2020/05/Lesson-2-Answers-Equivalent-fractions-1-2019.pdf</p> <p>No peeking until after you have had a go.</p>	<p>Answers:</p> <p>Answers can be found here: https://resources.whiterosemaths.com/wp-content/uploads/2020/05/Lesson-3-Answers-Equivalent-fractions-2-2019.pdf</p> <p>No peeking until after you have had a go.</p>	<p>Answers:</p> <p>Answers can be found here: https://resources.whiterosemaths.com/wp-content/uploads/2020/05/Lesson-4-Answers-Fractions-greater-than-1-2019.pdf</p> <p>No peeking until after you have had a go.</p>	
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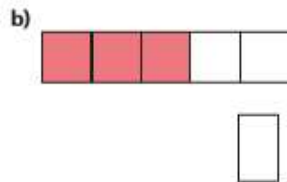
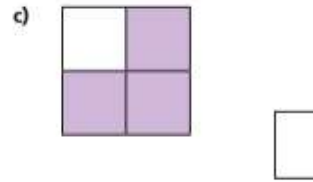
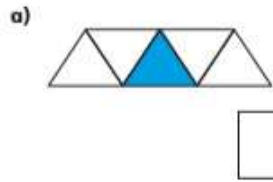
18.05.2020

LC: Can you identify fractions?

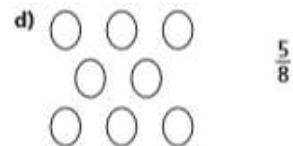


What is a fraction?

1 What fraction of each shape is shaded?



2 Shade each diagram to represent the fractions.



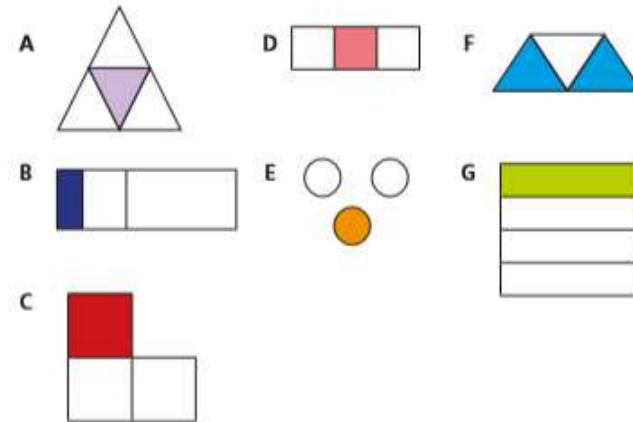
3 Circle the unit fractions.

$\frac{1}{3}$ $\frac{1}{5}$ $\frac{3}{5}$ $\frac{1}{8}$ $\frac{2}{3}$ $\frac{10}{11}$

How do you know which are unit fractions?



4 a) Tick the shapes with one third shaded.



b) Complete the sentences to describe the shapes with one third shaded.

There are equal parts altogether.

out of equal parts is shaded.

of the shape is shaded.

- 5 Draw an arrow to show the position of the fraction on the number line.



- 6 Draw an arrow to show the position of $\frac{5}{5}$ on the number line.



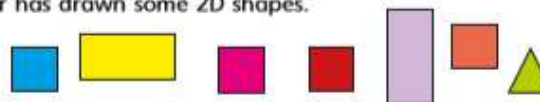
What do you notice?



- 7 Draw four different representations of $\frac{3}{4}$



- 8 Amir has drawn some 2D shapes.



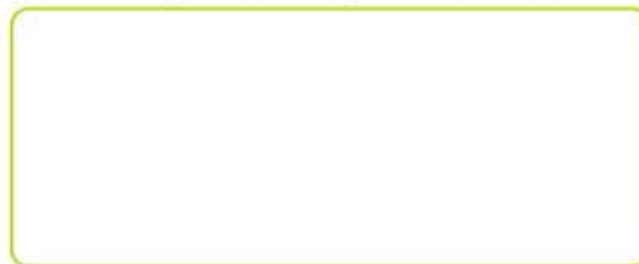
- a) What fraction of the shapes are triangles?

- b) What fraction of the shapes are squares?

- c) What fraction of the shapes have four sides?

- d) Draw 2D shapes to match the description.

$\frac{1}{5}$ are squares, $\frac{2}{5}$ are triangles, $\frac{3}{5}$ have more than 3 sides.



Compare shapes with a partner.

What is the same about your shapes? Is anything different?



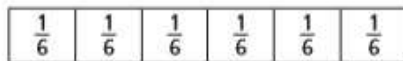
19.05.2020

LC: Can you identify equivalent fractions?

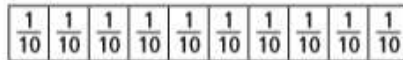
Equivalent fractions (1)



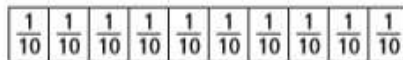
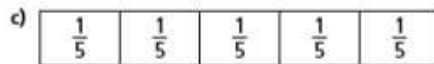
1 Shade the bar models to represent the equivalent fractions.



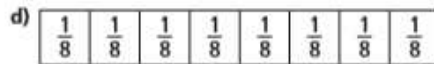
$\frac{1}{2} = \frac{3}{6}$



$\frac{1}{2} = \frac{5}{10}$



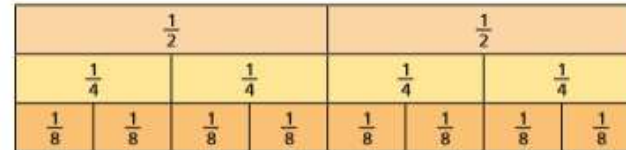
$\frac{4}{5} = \frac{8}{10}$



$\frac{6}{8} = \frac{3}{4}$

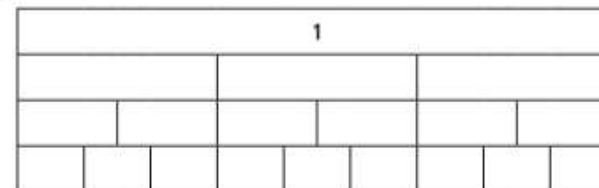


2 Use the fraction wall to complete the equivalent fractions.



a) $\frac{1}{2} = \frac{\square}{4}$ c) $\frac{2}{4} = \frac{4}{\square}$ e) $\frac{\square}{8} = \frac{3}{4}$
 b) $\frac{1}{2} = \frac{\square}{8}$ d) $\frac{2}{8} = \frac{\square}{4}$ f) $\frac{2}{2} = \frac{\square}{4} = \frac{\square}{8}$

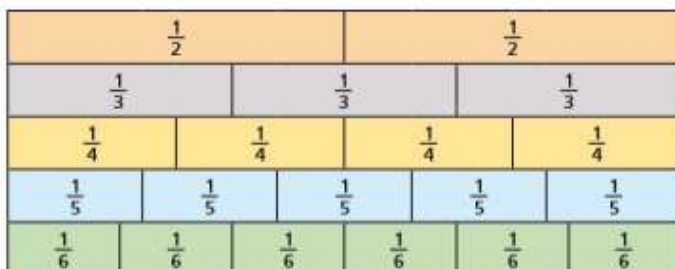
3 a) Label the fractions on the fraction wall.



b) Use the fraction wall to complete the equivalent fractions.

$\frac{1}{3} = \frac{\square}{6} = \frac{3}{\square}$ $\frac{\square}{3} = \frac{4}{\square} = \frac{6}{9}$
 $\frac{3}{\square} = \frac{6}{\square} = \frac{9}{\square} = 1$

4 Here is a fraction wall.



Is each statement true or false? Tick your answers.

- | | True | False |
|---|--------------------------|--------------------------|
| a) $\frac{1}{2}$ is equivalent to $\frac{3}{6}$ | <input type="checkbox"/> | <input type="checkbox"/> |
| b) $\frac{2}{3}$ is equivalent to $\frac{3}{4}$ | <input type="checkbox"/> | <input type="checkbox"/> |
| c) $\frac{2}{4}$ is equivalent to $\frac{3}{6}$ | <input type="checkbox"/> | <input type="checkbox"/> |
| d) $\frac{2}{3}$ is equivalent to $\frac{4}{5}$ | <input type="checkbox"/> | <input type="checkbox"/> |
| e) $\frac{2}{3}$ is equivalent to $\frac{4}{6}$ | <input type="checkbox"/> | <input type="checkbox"/> |
| f) $\frac{3}{5}$ is equivalent to $\frac{4}{6}$ | <input type="checkbox"/> | <input type="checkbox"/> |

Write your own equivalent fractions statements.

Ask a partner to say if they are true or false.



5 Are the statements always, sometimes or never true?

Circle your answer.

Draw a diagram to support your answer.

a) The greater the numerator, the greater the fraction.

always sometimes never

b) Fractions equivalent to one half have even numerators.

always sometimes never

c) If a fraction is equivalent to one half, the denominator will be double the numerator.

always sometimes never



20.05.2020

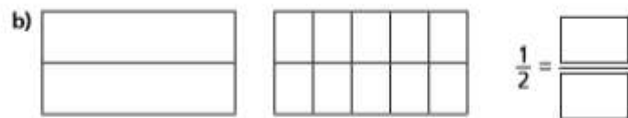
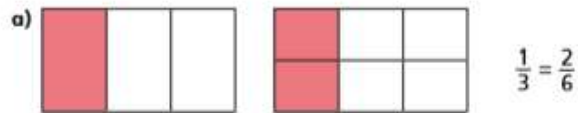
LC: Can you identify equivalent fractions?

Equivalent fractions (2)



1 Shade the diagrams to help you complete the equivalent fractions.

The first one has been done for you.



2 Draw a diagram to show that $\frac{3}{4} = \frac{6}{8}$



3 Match the equivalent fractions.

$\frac{1}{4}$

$\frac{4}{10}$

$\frac{10}{15}$

$\frac{1}{7}$

$\frac{3}{21}$

$\frac{2}{3}$

$\frac{2}{5}$

$\frac{3}{12}$



4 Complete the equivalent fractions.

a) $\frac{1}{5} = \frac{\square}{10}$

d) $\frac{3}{10} = \frac{9}{\square}$

g) $\frac{8}{12} = \frac{2}{\square}$

b) $\frac{4}{5} = \frac{\square}{10}$

e) $\frac{6}{8} = \frac{3}{\square}$

h) $\frac{2}{\square} = \frac{10}{25}$

c) $\frac{3}{10} = \frac{6}{\square}$

f) $\frac{8}{12} = \frac{\square}{3}$

i) $\frac{1}{\square} = \frac{4}{28}$

- 5 a) Write the fractions in the correct place on the sorting diagram.

$\frac{8}{24}$	$\frac{3}{12}$	$\frac{5}{15}$	$\frac{6}{24}$	$\frac{4}{12}$	$\frac{9}{36}$	$\frac{3}{9}$	$\frac{4}{16}$
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	equivalent to $\frac{1}{3}$	equivalent to $\frac{1}{4}$
odd denominator		
even denominator		

- b) Are any of the boxes empty?

Why do you think this is?

Talk about your answer with a partner.



- 6 Find three ways to make the fractions equivalent.

a) $\frac{2}{\square} = \frac{4}{\square}$ $\frac{2}{\square} = \frac{4}{\square}$ $\frac{2}{\square} = \frac{4}{\square}$

b) $\frac{1}{\square} = \frac{4}{\square}$ $\frac{1}{\square} = \frac{4}{\square}$ $\frac{1}{\square} = \frac{4}{\square}$

c) $\frac{\square}{3} = \frac{\square}{9}$ $\frac{\square}{3} = \frac{\square}{9}$ $\frac{\square}{3} = \frac{\square}{9}$

- 7 Eva and Ron have a baguette each.

The baguettes are the same size.

Eva cuts her baguette into 8 equal pieces.



3 of my equal pieces are equal to 6 of Eva's.



How many equal pieces has Ron cut his baguette into?

Ron has cut his baguette into equal pieces.



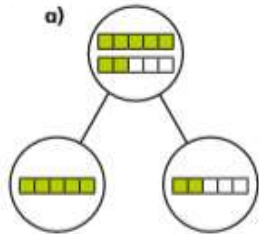
21.05.2020

LC: Can you identify and recognise fractions greater than 1?

Fractions greater than 1

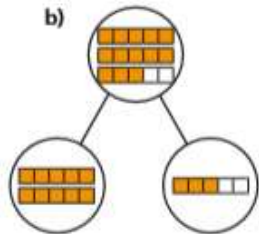


1 Complete the sentences.



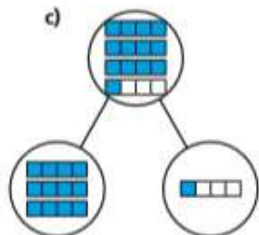
There are 7 fifths altogether.

7 fifths = whole + fifths



There are fifths altogether.

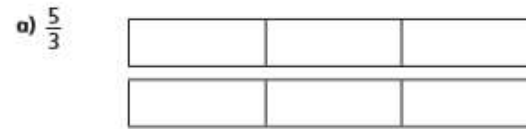
fifths = wholes +
 fifths



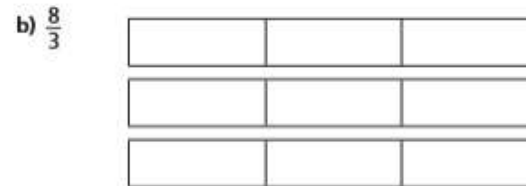
There are quarters altogether.

quarters = wholes +
 quarter

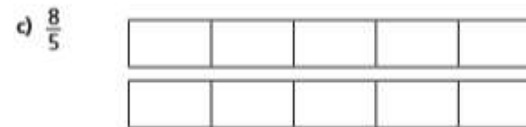
2 Shade the bar models to represent the fractions.



$\frac{5}{3} =$ whole + thirds =



$\frac{8}{3} =$ wholes + thirds =



$\frac{8}{5} =$ whole + fifths =



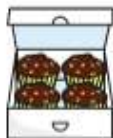
3 Complete the statements.

- a) $\frac{12}{2} = \square$ wholes e) $\frac{15}{3} = \square$ wholes
 b) $\frac{12}{4} = \square$ wholes f) $\frac{15}{5} = \square$ wholes
 c) $\frac{12}{6} = \square$ wholes g) $\frac{15}{4} = \square$ wholes + \square quarters
 d) $\frac{12}{3} = \square$ wholes h) $\frac{15}{2} = \square$ wholes + \square half

4 Whitney bakes 26 muffins.

Muffins are packed in boxes of 4

a) How many boxes can Whitney fill?



Whitney can fill \square boxes.

b) How many more muffins does Whitney need to fill another box?

Whitney needs \square muffins to fill another box.

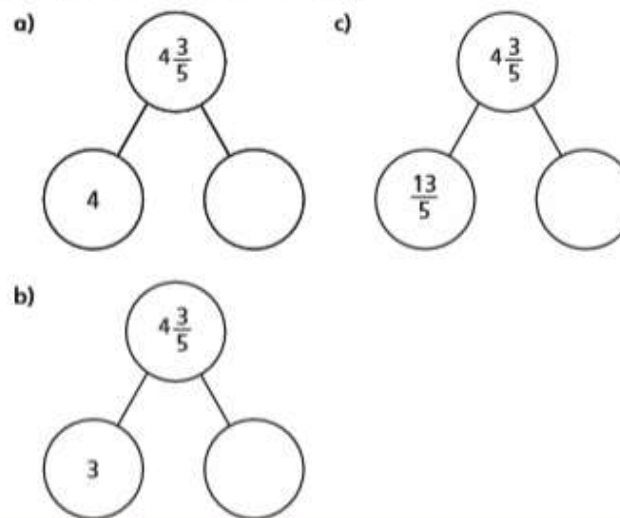
Explain how you know.

How does writing $\frac{26}{4}$ help you to answer this?

5 Write $<$, $>$ or $=$ to complete the statements.

- a) 2 wholes and 3 quarters \bigcirc 5 quarters
 b) 2 wholes and 3 quarters \bigcirc 15 quarters
 c) 2 wholes and 3 sixths \bigcirc 15 sixths
 d) 2 wholes and 3 eighths \bigcirc 15 eighths
 e) $\frac{15}{3} \bigcirc \frac{15}{5}$
 f) $\frac{15}{3} \bigcirc \frac{20}{4}$

6 Complete the part-whole models.



Answers for 18.05.2020



What is a fraction?

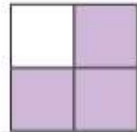
1 What fraction of each shape is shaded?

a)



$\frac{1}{4}$

c)



$\frac{2}{4}$

b)



$\frac{3}{5}$

d)



$\frac{4}{6}$

2 Shade each diagram to represent the fractions.

a)



$\frac{1}{6}$

c)



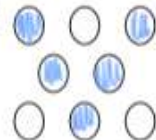
$\frac{5}{8}$

b)



$\frac{5}{6}$

d)



$\frac{5}{8}$

3 Circle the unit fractions.

$\frac{1}{3}$ $\frac{1}{5}$ $\frac{3}{5}$ $\frac{1}{8}$ $\frac{2}{3}$ $\frac{10}{11}$

How do you know which are unit fractions?

4 a) Tick the shapes with one third shaded.

A D F

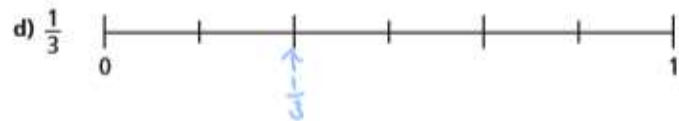
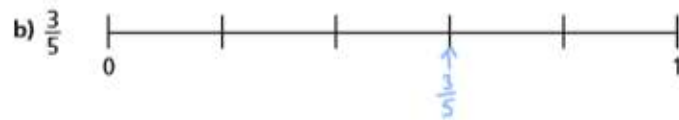
B E G

C

b) Complete the sentences to describe the shapes with one third shaded.

There are 3 equal parts altogether.
 1 out of 3 equal parts is shaded.
 $\frac{1}{3}$ of the shape is shaded.

- 5 Draw an arrow to show the position of the fraction on the number line.



- 6 Draw an arrow to show the position of $\frac{5}{5}$ on the number line.



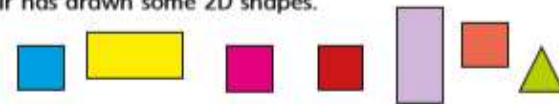
What do you notice?



- 7 Draw four different representations of $\frac{3}{4}$

Various answers e.g.

- 8 Amir has drawn some 2D shapes.



- a) What fraction of the shapes are triangles?
 b) What fraction of the shapes are squares?
 c) What fraction of the shapes have four sides?

$\frac{1}{10}$
 $\frac{4}{10}$
 $\frac{6}{10}$

- d) Draw 2D shapes to match the description.
 $\frac{1}{5}$ are squares, $\frac{2}{5}$ are triangles, $\frac{3}{5}$ have more than 3 sides.



Compare shapes with a partner.

What is the same about your shapes? Is anything different?



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.