

Class 3 Home Learning, week beginning 4th May 2020

## Maths - Year 3

### Week 2, Lesson 5

### Equivalent fractions (1)

Please watch the video before choosing your challenge.

Why not have a go at the reasoning  
and problem solving too?

Can I find equivalent fractions?

### Challenge 1

These pages do not need to be printed out. Please write the short date you do the work and the above question in your maths book, underlining them with a ruler. Remember to write the question number too!

Questions 1-3 in the answers are questions 1-3 in this challenge.

1) Draw the bar models in your maths book and complete.

a) Shade  $\frac{1}{2}$  of the bar model.

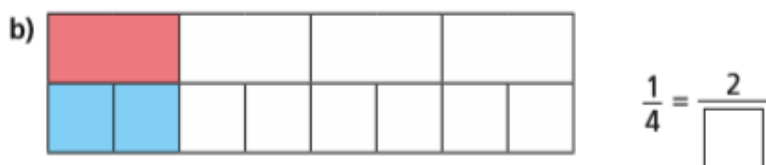
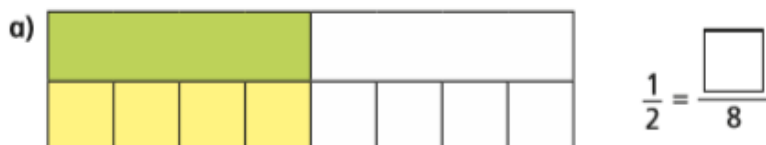


b) Shade  $\frac{2}{4}$  of the bar model.



What do you notice?

2) You do not need to draw the bar models. Write the fraction number sentences in your maths book.



3) Draw the bar models in your maths book and complete.

Shade the bar models to represent the equivalent fractions.

a)



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

b)



$$\frac{2}{3} = \frac{4}{6}$$

c)



$$\frac{1}{3} = \frac{3}{9}$$

d)



$$\frac{2}{3} = \frac{6}{9}$$

Can you find any more equivalent fractions using the bar models?

Can I find equivalent fractions?

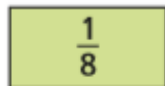
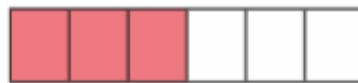
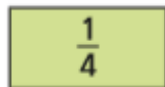
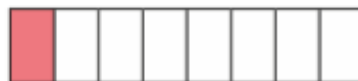
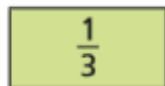
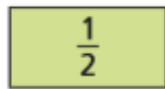
## Challenge 2

These pages do not need to be printed out. Please write the short date you do the work and the above question in your maths book, underlining them with a ruler. Remember to write the question number too!

Questions 4-7 in the answers are questions 1-4 in this challenge.

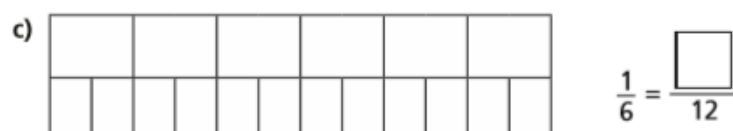
1) Draw the bar models in your maths book and complete.

Match each bar model to its equivalent fraction.



2) Draw the bar models in your maths book and complete.

Shade the bar models to complete the equivalent fractions.

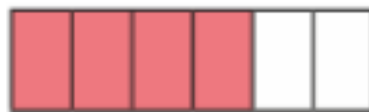


3) Remember to explain in writing how you know.

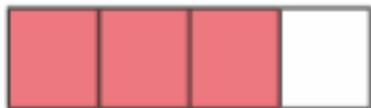
The bar models represent fractions.



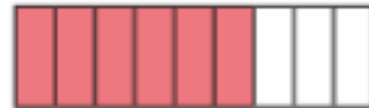
A



C



B

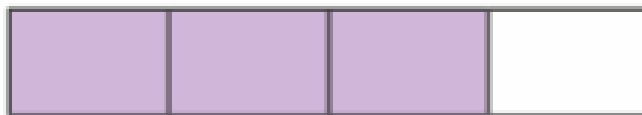


D

Which is the odd one out? \_\_\_\_\_

Why do you think this?

4) This bar model represents  $\frac{3}{4}$



Which bar models could be used to show a fraction that is equivalent to  $\frac{3}{4}$  (three quarters)? Draw and shade the bar models to support your answers.



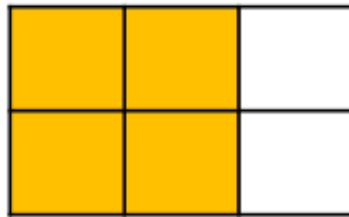
Can I find a fraction of an amount?

**Reasoning and problem solving**

These pages do not need to be printed out. Please write the short date you do the work and the above question in your maths book, underlining them with a ruler. Remember to write the question number too!

1)

Explain how the diagram shows both  $\frac{2}{3}$   
and  $\frac{4}{6}$



2)

Which is the odd one out? Explain why



3)



Teddy makes this fraction:



Mo says he can make an equivalent fraction with a denominator of 9

Dora disagrees. She says it can't have a denominator of 9 because the denominator would need to be double 3



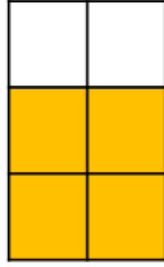
Who is correct? Who is incorrect?  
Explain why.

*Answers are on the next page.*

# Equivalent Fractions (1)

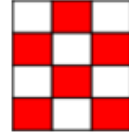
## Reasoning and Problem Solving

Explain how the diagram shows both  $\frac{4}{6}$  and  $\frac{2}{3}$



The diagram is divided in to six equal parts and four out of the six are yellow. You can also see three **columns** and two columns are yellow.

Which is the odd one out? Explain why



This is the odd one out because the other fractions are all equivalent to  $\frac{1}{2}$

Teddy makes this fraction:



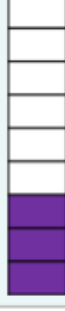
Mo says he can make an equivalent fraction with a denominator of 9



Dora disagrees. She says it can't have a denominator of 9 because the denominator would need to be double 3

Who is correct? Who is incorrect? Explain why.

Mo is correct. He could make three ninths which is equivalent to one third.



Dora is incorrect. She has a misconception that you can only double to find equivalent fractions.