



W.C. 8th June

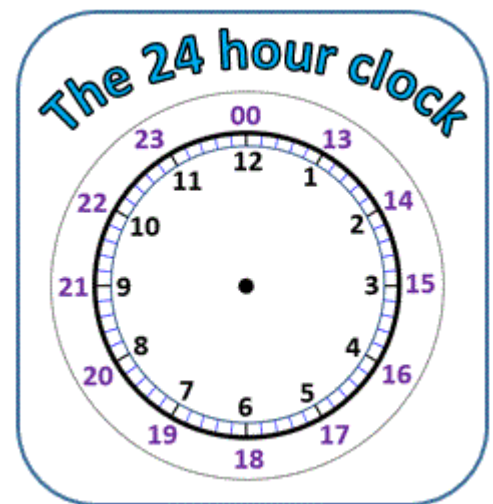
Use these worksheets to work from **and not on**. All you need is a piece of paper, pencil and a ruler.

After watching the videos and having a go at the practise activities on BBC Bitesize, have a go at these activities. Depending on your confidence choose Mild, Medium or Spicy.

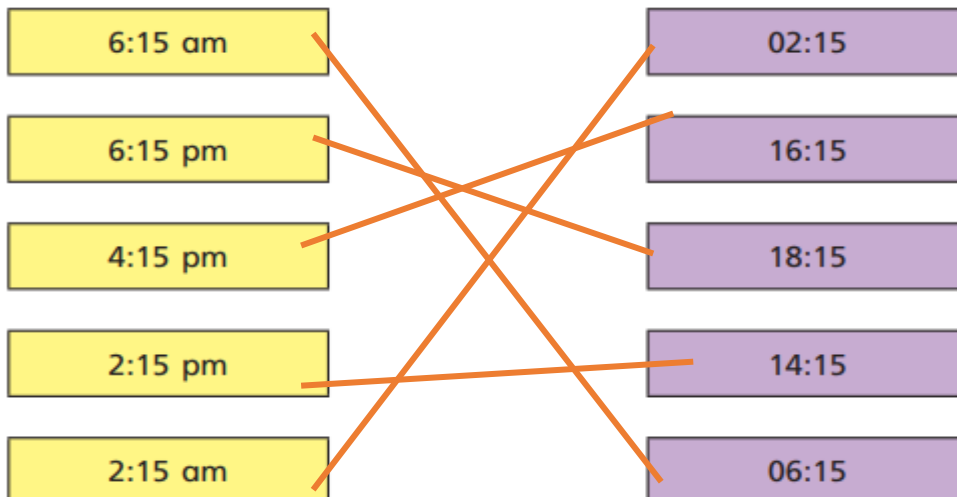
Maths

Deeper Learning – You may wish to deepen your learning by looking at time!

Time: Practice using the 24 hour clock



Match the times.

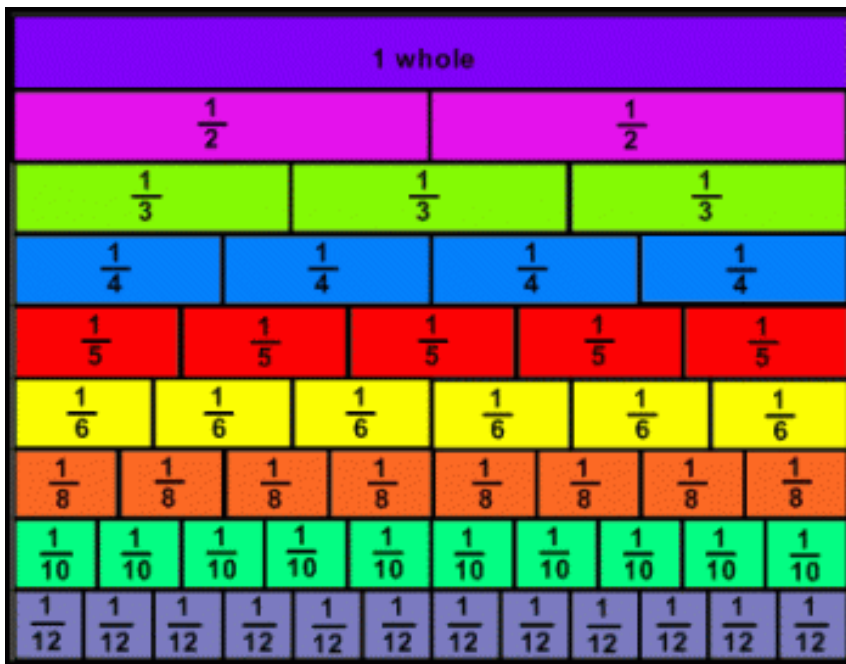


Monday

<https://www.bbc.co.uk/bitesize/tags/zmyxxyc/year-3-and-p4-lessons/1>

<https://whiterosemaths.com/homelearning/year-3/>

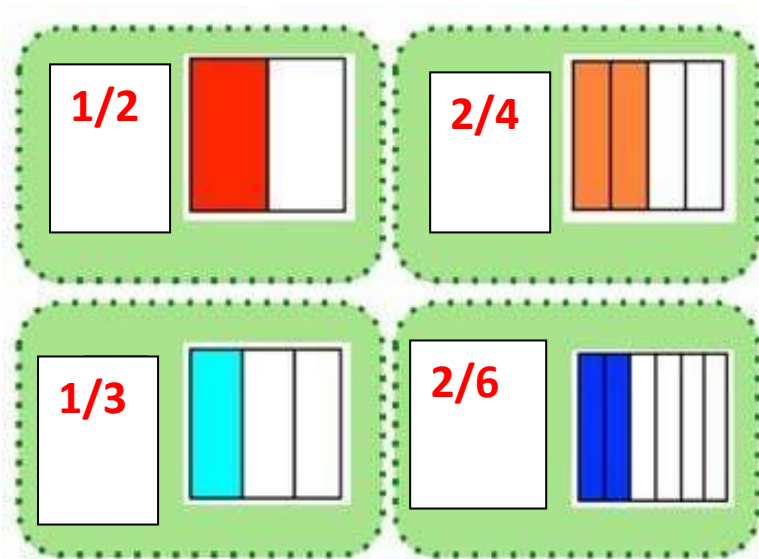
Drawing and discovering equivalent fractions



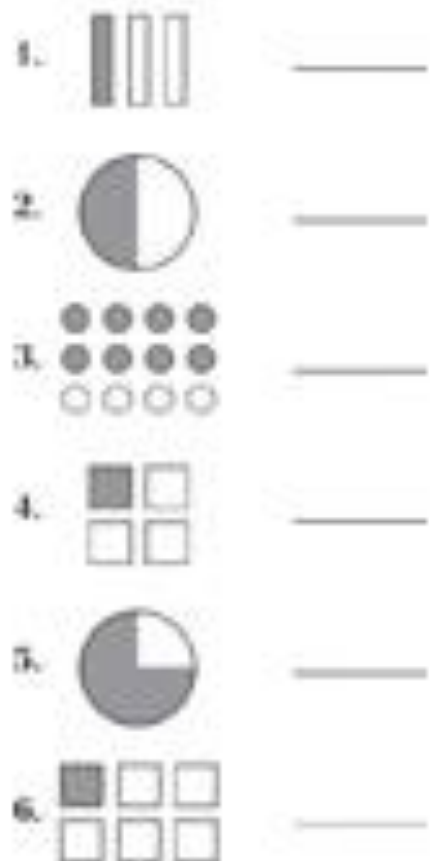
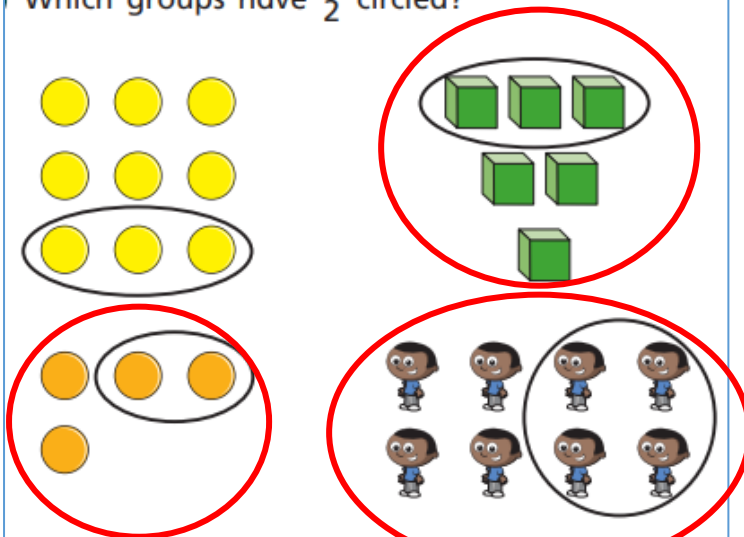
Here is an example of a fraction wall. Use this to help you to identify equivalent fractions.

Mild

1 - What fractions can you see?



Which groups have $\frac{1}{2}$ circled?



1. $\frac{1}{3}$

2. $\frac{1}{2}$

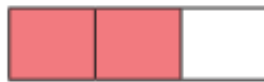
3. $\frac{8}{12}$ OR $\frac{2}{3}$

4. $\frac{1}{4}$

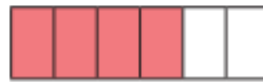
5. $\frac{3}{4}$

6. $\frac{1}{6}$

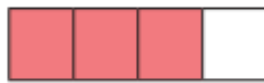
The bar models represent fractions.



A



C



B



D

A - $\frac{2}{3}$

B - $\frac{3}{4}$

C - $\frac{4}{6}$

D - $\frac{6}{9}$

Medium

What fraction of each shape is shaded?



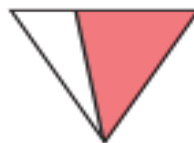
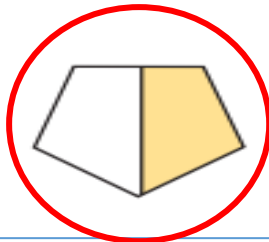
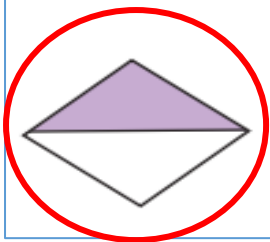
1 - $\frac{3}{4}$

2 - $\frac{6}{8}$

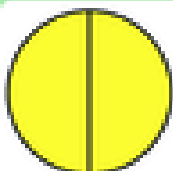
3 - $\frac{7}{10}$

4 - $\frac{9}{12}$

Which shapes have $\frac{1}{2}$ shaded?



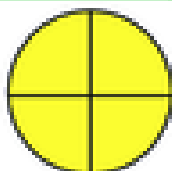
Write in the equivalent fraction - what fraction do you see?



$\frac{2}{2}$

=

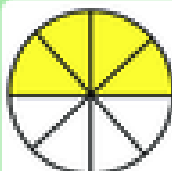
$\frac{4}{4}$



$\frac{3}{4}$

=

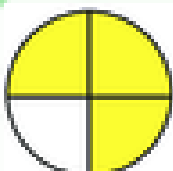
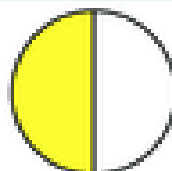
$\frac{6}{8}$



$\frac{4}{8}$

=

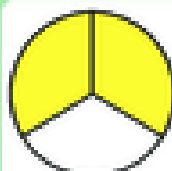
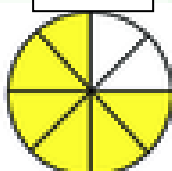
$\frac{1}{2}$



$\frac{3}{4}$

=

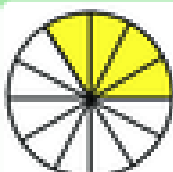
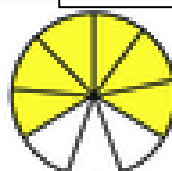
$\frac{6}{8}$



$\frac{2}{3}$

=

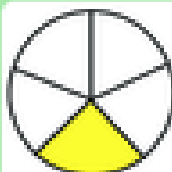
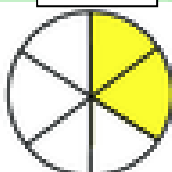
$\frac{6}{9}$



$\frac{4}{12}$

=

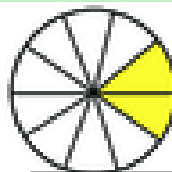
$\frac{2}{6}$



$\frac{1}{5}$

=

$\frac{2}{10}$



Use the sweets to help you answer the questions.



a) What is $\frac{1}{2}$ of 12? c) What is $\frac{2}{4}$ of 12?

b) What is $\frac{1}{4}$ of 12?

Remember $\frac{2}{4}$ is equivalent to $\frac{1}{2}$

A - 6

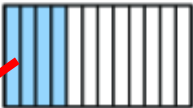
B - 3

C - 6

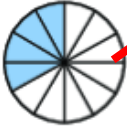
Spicy

1 - Draw a line to match the equivalent fractions

1.  A. 

2.  B. 

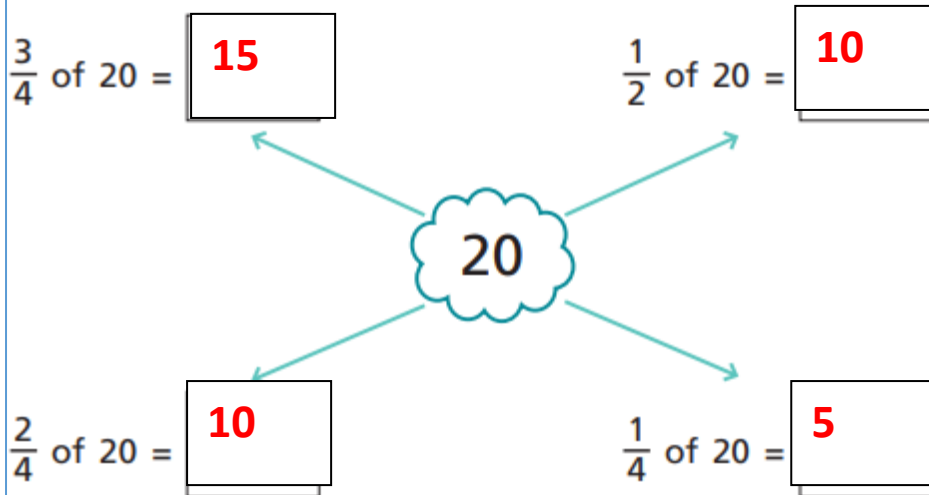
3.  C. 

4.  D. 

5.  E. 

6.  F. 

Write the missing numbers.



1. Jack offers half of his cake or $\frac{3}{4}$ of his cake. Which is the better offer and why? - $\frac{3}{4}$ because this is a larger amount.
2. Mrs Jackson wins the lottery, she gives $\frac{1}{3}$ of her winnings to her sister and $\frac{2}{4}$ to her brother. Who receives the most? - $\frac{2}{4}$ is more because it is equivalent to $\frac{1}{2}$ and this is larger than $\frac{1}{3}$.

Solve the problems.

a) Find $\frac{2}{4}$ of £8

b) Find $\frac{2}{4}$ of 24 kg

How did you work out the answers?

A - £4

B - 12kg

Tuesday

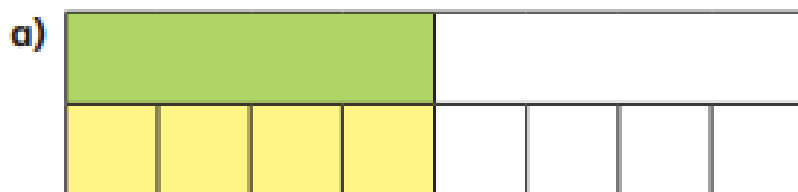
<https://www.bbc.co.uk/bitesize/tags/zmyxxyc/year-3-and-p4-lessons/1>

<https://whiterosemaths.com/homelearning/year-3/>

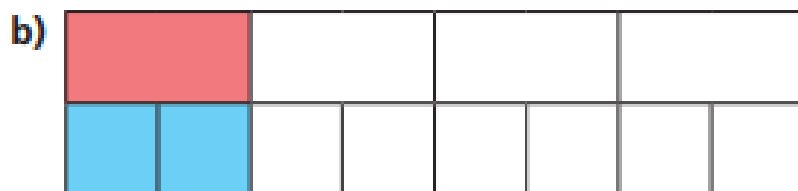
Simplifying equivalent fractions

Mild

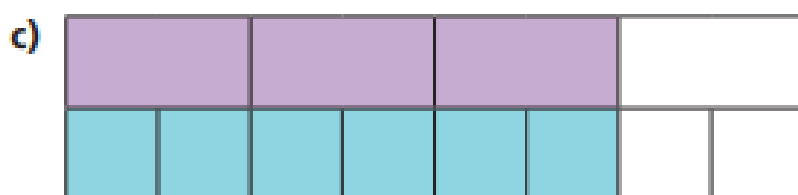
Complete the equivalent fractions.



$$\frac{1}{2} = \frac{\boxed{2}}{8}$$



$$\frac{1}{4} = \frac{2}{\boxed{4}}$$

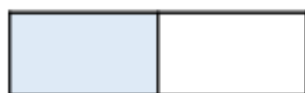


$$\frac{3}{4} = \frac{6}{\boxed{8}}$$

Write the missing number.

$$\frac{1}{2} = \frac{\boxed{2}}{4}$$

Compare one of the two equal pieces with two of the four equal pieces. What do you notice?

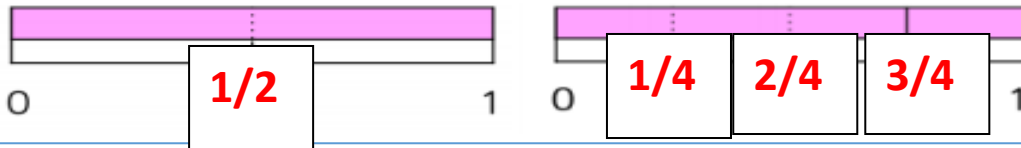


$\frac{1}{2}$ AND $\frac{2}{4}$ are the same they are equivalent.

Pictorial representations	Fraction	Words
	$\frac{2}{3} = \frac{4}{6}$	Two thirds is equivalent to four sixths.
	$\frac{1}{2} = \frac{2}{4}$	One half is equivalent to two quarters.
	$\frac{3}{4} = \frac{6}{8}$	Three quarters is equivalent to six eighths.
	$\frac{1}{5} = \frac{2}{10}$	One fifth is equivalent to two tenths.

Medium

Use the models on the number line to identify the missing fractions. Which fractions are equivalent?



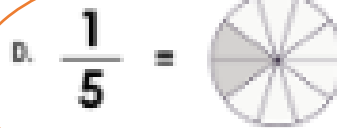
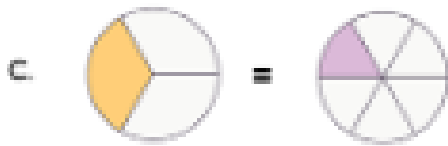
You cannot find $\frac{2}{4}$ of this shape as you cannot divide it into 4 equal parts.



He is correct. It is not possible to divide this shape into 4 equal parts.



$$\frac{1}{6} = \frac{6}{12}$$



The bar model represents $\frac{1}{2}$

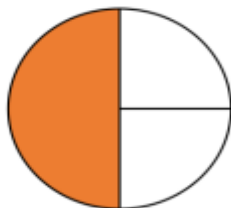


$\frac{2}{4}$, $\frac{3}{6}$, $\frac{4}{8}$, $\frac{5}{10}$, $\frac{6}{12}$

Write as many equivalent fractions as you can.



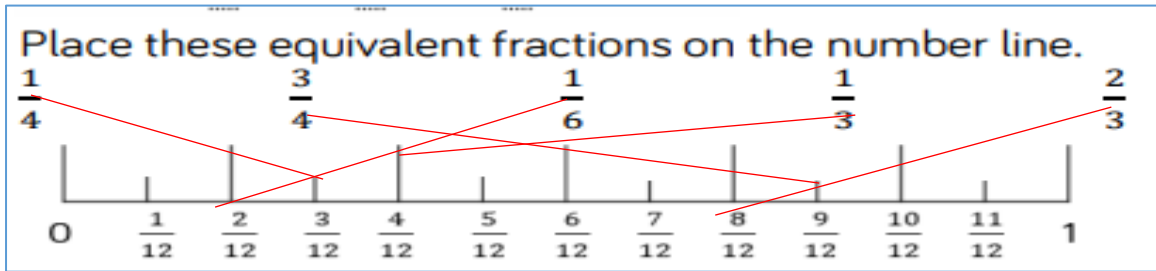
I have shaded a third of my shape.



Whitney is incorrect because she has not got three equal parts, therefore she has shaded $\frac{1}{2}$ not $\frac{1}{3}$.

Do you agree?
Explain why.

Spicy



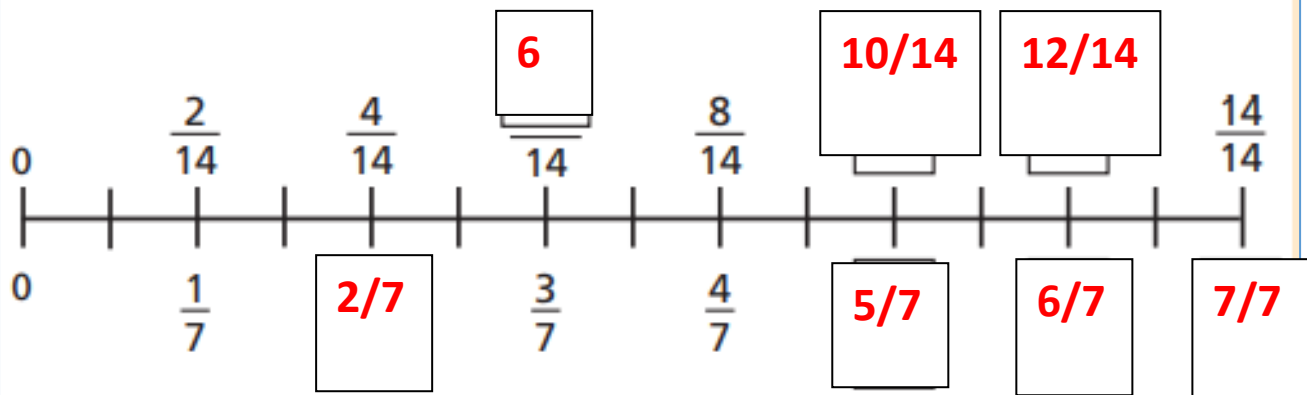
1) $\frac{1}{3} = \frac{\quad}{6}$ 2) $\frac{1}{4} = \frac{\quad}{12}$ 3) $\frac{1}{3} = \frac{\quad}{9}$ 4) $\frac{1}{2} = \frac{\quad}{12}$

5) $\frac{1}{4} = \frac{\quad}{8}$ 6) $\frac{1}{2} = \frac{\quad}{8}$ 7) $\frac{1}{6} = \frac{\quad}{12}$ 8) $\frac{1}{5} = \frac{\quad}{10}$

1 - $\frac{2}{6}$ 2 - $\frac{3}{12}$ 3 - $\frac{3}{9}$ 4 - $\frac{6}{12}$

5 - $\frac{2}{8}$ 6 - $\frac{4}{8}$ 7 - $\frac{2}{12}$ 8 - $\frac{2}{10}$

Find the missing numbers.



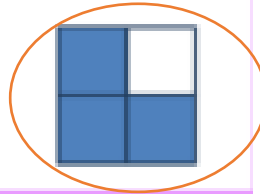
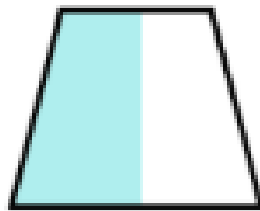
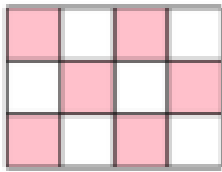
Tommy has a jar of 12 cookies. He gives half of them to Alex, and $\frac{2}{4}$ of them to Mo.



Who gets the most cookies?

They both get the same amount because $\frac{1}{2}$ is equivalent to $\frac{2}{4}$.

Which shape is the odd one out? Can you explain why?



This shape is the odd one out because all of the other shapes represent $\frac{1}{2}$. The square represents $\frac{3}{4}$.

Wednesday

<https://www.bbc.co.uk/bitesize/tags/zmyxxyc/year-3-and-p4-lessons/1>

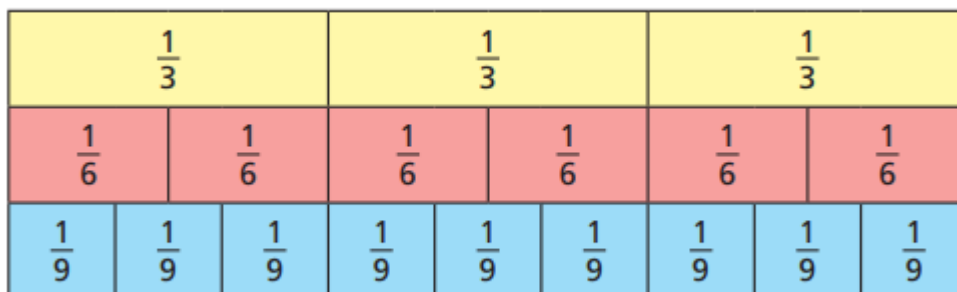
<https://whiterosemaths.com/hjessie100>

[omelearning/year-3/](https://www.whiterosemaths.com/omelearning/year-3/)

Equivalent fractions

Mild

Use the fraction wall to complete the equivalent fractions.



a) $\frac{1}{3} = \frac{\square}{6}$

d) $\frac{2}{3} = \frac{6}{\square}$

b) $\frac{1}{3} = \frac{\square}{9}$

e) $\frac{4}{6} = \frac{6}{\square}$

A - 2/6

B - 3/9

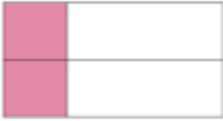
D - 6/9

E - 6/9

WhiteRoseMaths

Which image represents $\frac{1}{2}$?

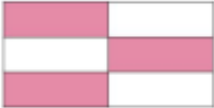
A



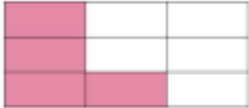
B



C



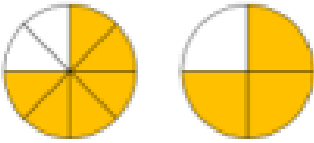
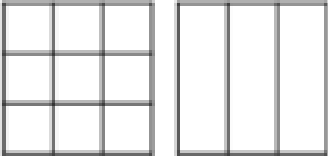
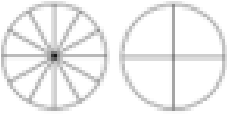
D



© White Rose 2018

Which image represents $\frac{1}{2}$?

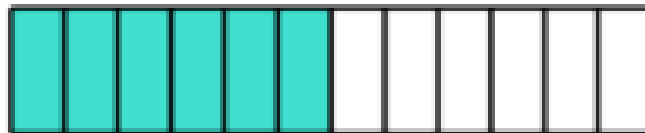
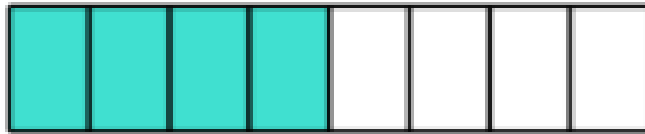
Complete the table, the first one has been done for you.

	$\frac{6}{8} = \frac{3}{4}$	Six eighths is equivalent to three quarters
	$\frac{1}{3} = \frac{\square}{9}$	_____ is equivalent to _____
	$\frac{\square}{4} = \frac{\square}{12}$	Three twelfths is equivalent to _____ quarters

$\frac{1}{3} = \frac{3}{9}$ One third is equivalent to three ninths.

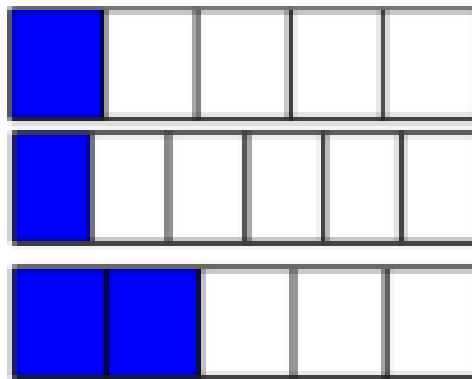
$\frac{1}{4} = \frac{3}{12}$ Three twelfths are equivalent to one quarter.

$$\frac{2}{4}$$



$\frac{2}{4}$ and $\frac{4}{8}$ and $\frac{6}{12}$

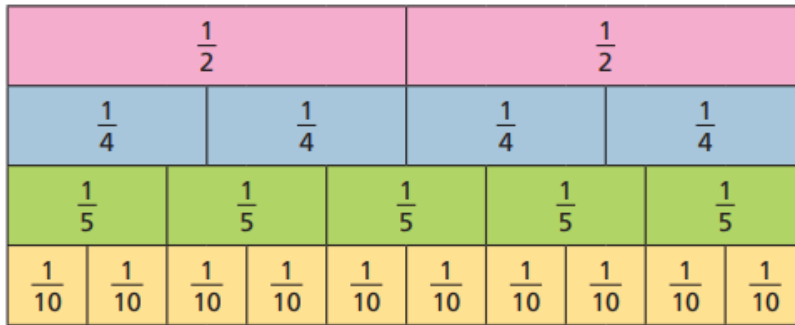
$$\frac{1}{5}$$



The first image shows $\frac{1}{5}$ because there are five equal parts and one is shaded.

Medium

Use the fraction wall to decide whether the fractions are equivalent or not.



a - is

b - is not

c - is

d - is not

Complete the sentences using is or is not.

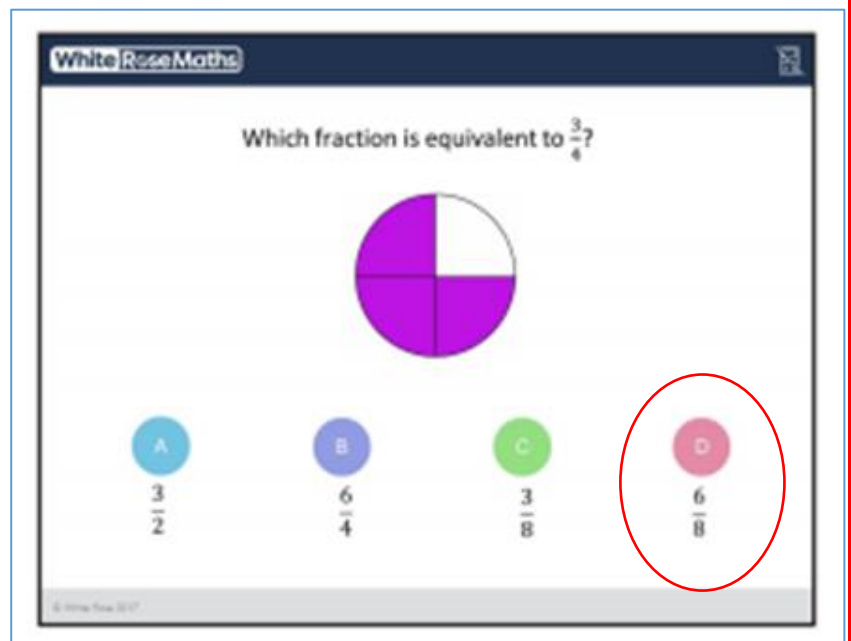
a) $\frac{1}{2}$ _____ equivalent to $\frac{2}{4}$

b) $\frac{1}{4}$ _____ equivalent to $\frac{2}{10}$

c) $\frac{1}{2}$ _____ equivalent to $\frac{5}{10}$

d) $\frac{3}{10}$ _____ equivalent to $\frac{2}{5}$

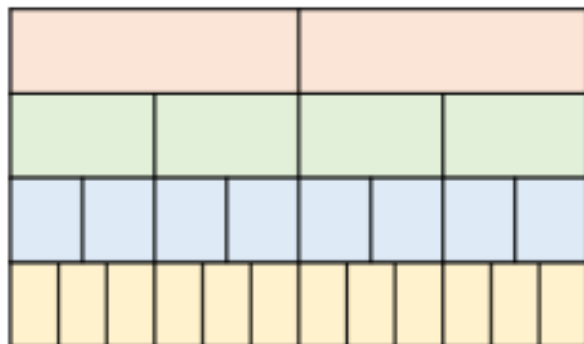
Which fraction is equivalent to $\frac{3}{4}$?



Use the fraction wall to complete the equivalent fractions.

$$\frac{1}{2} = \frac{\square}{4} = \frac{\square}{8} = \frac{6}{\square}$$

$$\frac{1}{4} = \frac{2}{\square} = \frac{3}{\square}$$



$$\frac{1}{2} = \frac{2}{4} = \frac{4}{8} = \frac{6}{12}$$

$$\frac{1}{4} = \frac{2}{8} = \frac{3}{12}$$



Finn uses a bar model to find a fraction equivalent to one half. He says the denominator is 10, what could the numerator be?

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

The numerator is 5 because $\frac{5}{10}$ is equivalent to $\frac{1}{2}$.

Spicy

1. $\frac{6}{12} = \frac{\square}{2}$

2. $\frac{3}{\square} = \frac{1}{4}$

3. $\frac{2}{\square} = \frac{4}{12}$

4. $\frac{\square}{4} = \frac{6}{8}$

5. $\frac{4}{\square} = \frac{1}{3}$

6. $\frac{5}{6} = \frac{10}{\square}$

7. $\frac{2}{3} = \frac{8}{\square}$

8. $\frac{1}{\square} = \frac{2}{12}$

You may wish to use a fraction wall to help you solve this!

1 - $\frac{6}{12} = \frac{1}{2}$

2 - $\frac{3}{12} = \frac{1}{4}$

3 - $\frac{2}{6} = \frac{4}{12}$

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

5 - $\frac{4}{12} = \frac{1}{3}$

6 - $\frac{5}{6} = \frac{10}{12}$

7 - $\frac{2}{3} = \frac{6}{8}$

8 - $\frac{1}{6} = \frac{2}{12}$



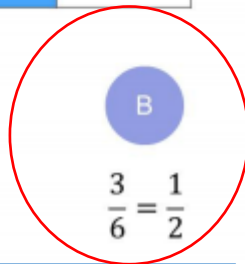
Which number sentence is represented by this image?



=



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



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



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



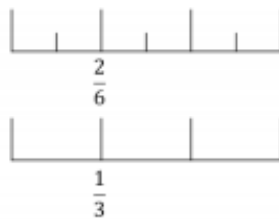
$$\frac{3}{6} = \frac{1}{3}$$

Alex and Tommy are using number lines to explore equivalent fractions.



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

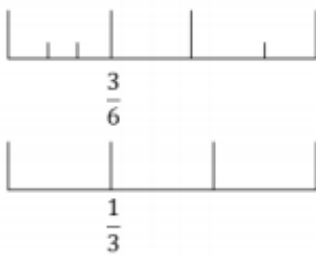
Alex



Tommy



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



Who do you agree with? Explain why.

Alex is correct. Tommy's top number line isn't split into equal parts which means he cannot find the correct equivalent fraction.

Only a fraction of each line is shown. The rest is hidden behind the blue screen.

Explain your reasoning.



the first line.

The second line is longer because it is divided into three parts, there are $\frac{2}{3}$ left and this is larger than the $\frac{1}{2}$ left on

Thursday

<https://www.bbc.co.uk/bitesize/tags/zmyxxyc/year-3-and-p4-lessons/1>

<https://whiterosemaths.com/homelearning/year-3/>

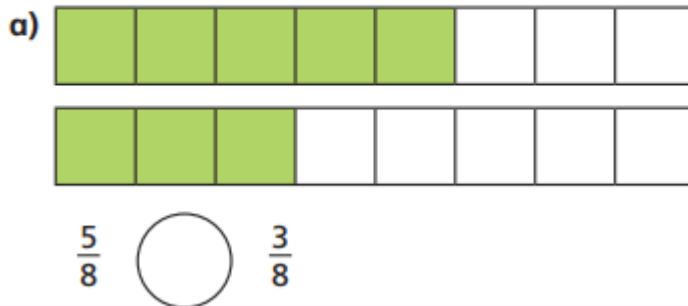
Comparing two fractions

SYMBOL	WORDS	EXAMPLE
$>$	greater than	$10 > 3$
$<$	less than	$2 < 6$

Mild

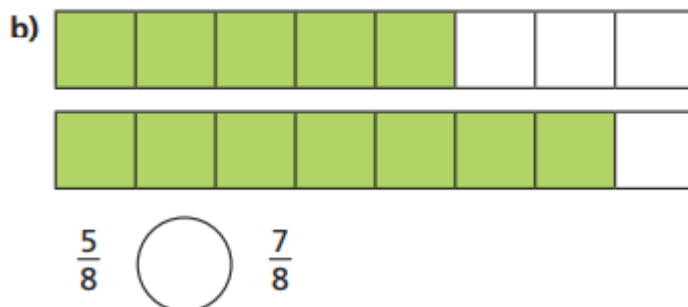
Write $<$, $>$ or $=$ to compare the fractions.

Use the bar models to help you.

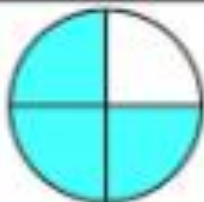


a - $>$

b - $<$



1)



$\frac{3}{5}$

>



$\frac{2}{3}$

2)



—



—

3)



—



—

4)



—



—

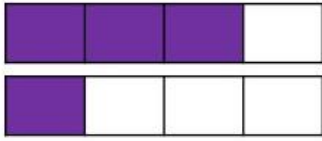
$$2 - \frac{4}{5} > \frac{3}{4}$$

$$3 - \frac{2}{7} < \frac{1}{3}$$

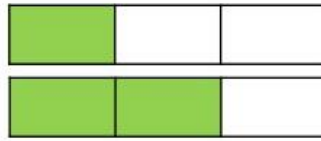
$$4 - \frac{4}{6} = \frac{2}{3}$$

Compare the fractions using comparison symbols.
 $> = <$

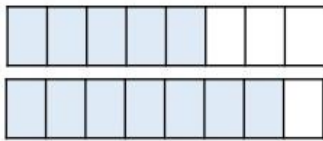
$$\frac{3}{4} \bigcirc \frac{1}{4}$$



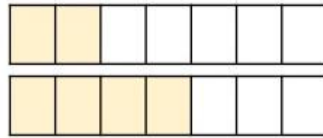
$$\frac{1}{3} \bigcirc \frac{2}{3}$$



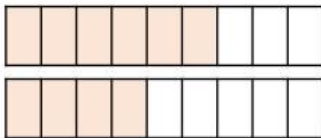
$$\frac{5}{8} \bigcirc \frac{7}{8}$$



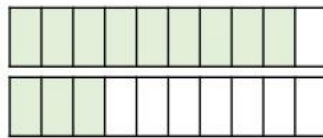
$$\frac{2}{7} \bigcirc \frac{4}{7}$$



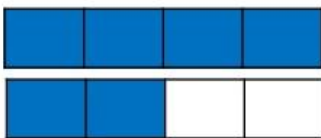
$$\frac{6}{9} \bigcirc \frac{4}{9}$$



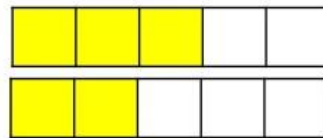
$$\frac{9}{10} \bigcirc \frac{3}{10}$$



$$\frac{4}{4} \bigcirc \frac{2}{4}$$



$$\frac{3}{5} \bigcirc \frac{2}{5}$$



$$1 - \frac{3}{4} > \frac{1}{4}$$

$$2 - \frac{1}{3} < \frac{2}{3}$$

$$3 - \frac{5}{8} < \frac{7}{8}$$

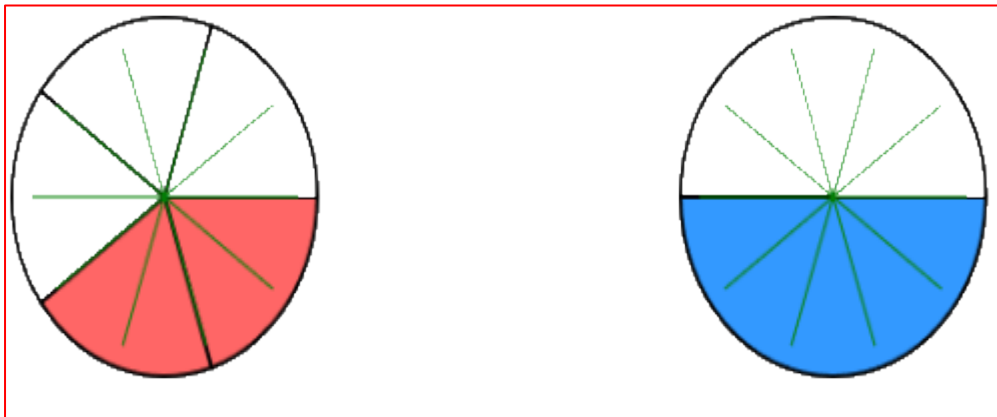
$$4 - \frac{2}{7} < \frac{4}{7}$$

$$5 - \frac{6}{9} > \frac{4}{9}$$

$$6 - \frac{9}{10} > \frac{3}{10}$$

$$7 - \frac{4}{4} > \frac{2}{4}$$

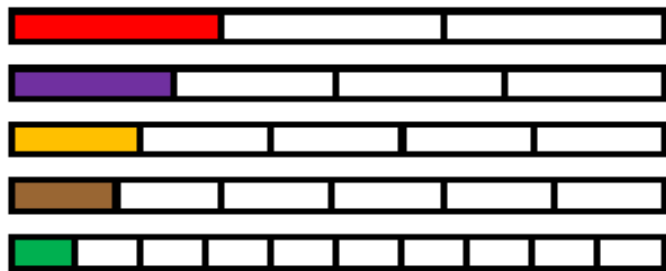
$$8 - \frac{3}{5} > \frac{2}{5}$$



$\frac{4}{10}$ is not bigger than $\frac{1}{2}$ even though 10 is bigger.

Medium

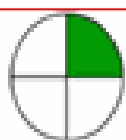
Using the fraction strips below, use the $>$, $<$ or $=$ symbol to compare the fractions.



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

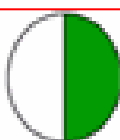
$$\frac{1}{3} > \frac{1}{6}$$

$$\frac{1}{5} < \frac{1}{4}$$



$$\frac{1}{4}$$

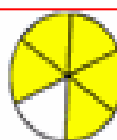
$<$



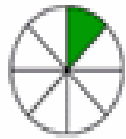
$$\frac{1}{2}$$



$$\frac{15}{16}$$



$$\frac{5}{6}$$

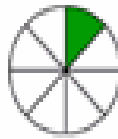


$$\frac{1}{8}$$

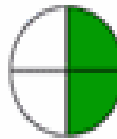


$$\frac{1}{4}$$

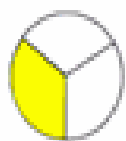
4)



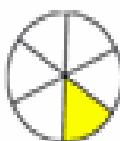
$$\frac{1}{8}$$



$$\frac{2}{4}$$



$$\frac{1}{3}$$



$$\frac{1}{6}$$

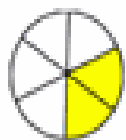
6)



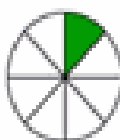
$$\frac{3}{6}$$



$$\frac{1}{3}$$

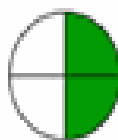


$$\frac{2}{6}$$



$$\frac{1}{8}$$

8)



$$\frac{2}{4}$$



$$\frac{2}{8}$$

1. $\frac{15}{16} > \frac{5}{6}$

2. $\frac{1}{8} < \frac{1}{4}$

3. $\frac{1}{8} < \frac{2}{4}$

4. $\frac{1}{3} > \frac{1}{6}$

5. $\frac{3}{6} > \frac{1}{3}$

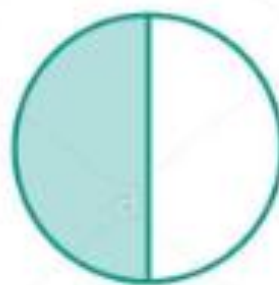
6. $\frac{2}{6} > \frac{1}{8}$

7. $\frac{2}{4} > \frac{2}{8}$



I know that $\frac{1}{3}$ is larger than $\frac{1}{2}$ because 3 is larger than 2

Do you agree with Dora?
Explain how you know.



one half



one third

Dora is incorrect because if the numerator is the same, the bigger the denominator, the smaller the fractions.

EXTRA CHALLENGE - any fractions larger than $\frac{1}{2}$ e.g. $\frac{3}{4}$

4a. Yasmin has used a bar model to compare two fractions.



She says that two sevenths are more than three sevenths. Is she correct?
Explain your answer.

Yasmin is incorrect because she has not shared her bar into seven equal groups. Two sevenths are less than three sevenths.

Spicy

Write $<$, $>$ or $=$ to compare the fractions.

a) $\frac{1}{5}$ ○ $\frac{3}{5}$

d) $\frac{6}{7}$ ○ $\frac{2}{7}$

b) $\frac{2}{5}$ ○ $\frac{2}{5}$

e) $\frac{6}{13}$ ○ $\frac{12}{13}$

c) $\frac{2}{7}$ ○ $\frac{6}{7}$

f) $\frac{13}{15}$ ○ $\frac{13}{15}$

a - $<$

b - $=$

c - $<$

d - $>$

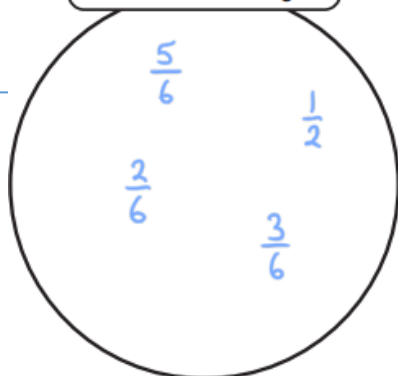
e - $<$

f - $=$

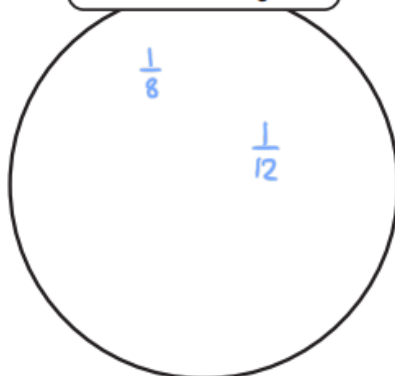
Sort the fractions into the circles.



greater than $\frac{1}{6}$



less than $\frac{1}{6}$



Jack is comparing fractions.

$\frac{1}{8}$ is greater than $\frac{1}{4}$
because 8 is greater than 4



Why is Jack wrong?

Jack is wrong because if $\frac{1}{8}$ and $\frac{1}{4}$ were represented, one quarter is larger than $\frac{1}{8}$.

9a. Hillary is sharing a packet of sweets with her friends.

She says:



If I eat three tenths of the sweets, I will have more than if I eat three fifths because 10 is more than 5.

Is Hillary correct? Explain your answer.

Hillary is not correct. Three fifths are equal to six tenths which is more than three tenths. Hillary will have more sweets if she has three fifths.

Amy, Zac and Harry are running a race.

Zac has run $\frac{1}{2}$ of the race.

Amy has run $\frac{3}{4}$ of the race.

Harry has run $\frac{1}{4}$ of the race.

Who has run the shortest distance?

Explain your answer.

Harry has ran the shortest distance because $\frac{1}{4}$ is the smallest fraction.

Friday

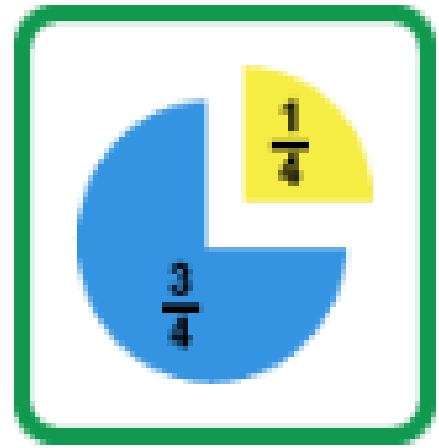
Times Table Rockstars

Have a go at your times tables on TTRockstars this week. Maybe you could battle with one of your friends? We can't wait to see how much your times tables have improved!



On Purple Mash you will find
a fractions quiz!

Have a go and see
how much you
have learnt this
week!



Fraction Equivalence
Quiz