



W.C. 8th June

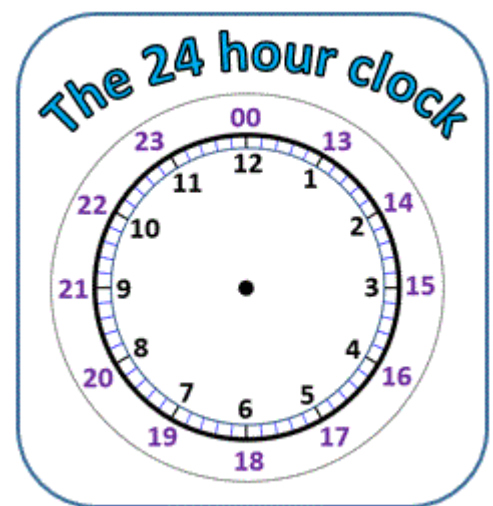
Use these worksheets to work from **and not on**. All you need is a piece of paper, pencil and a ruler.

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.

6:15 am

02:15

6:15 pm

16:15

4:15 pm

18:15

2:15 pm

14:15

2:15 am

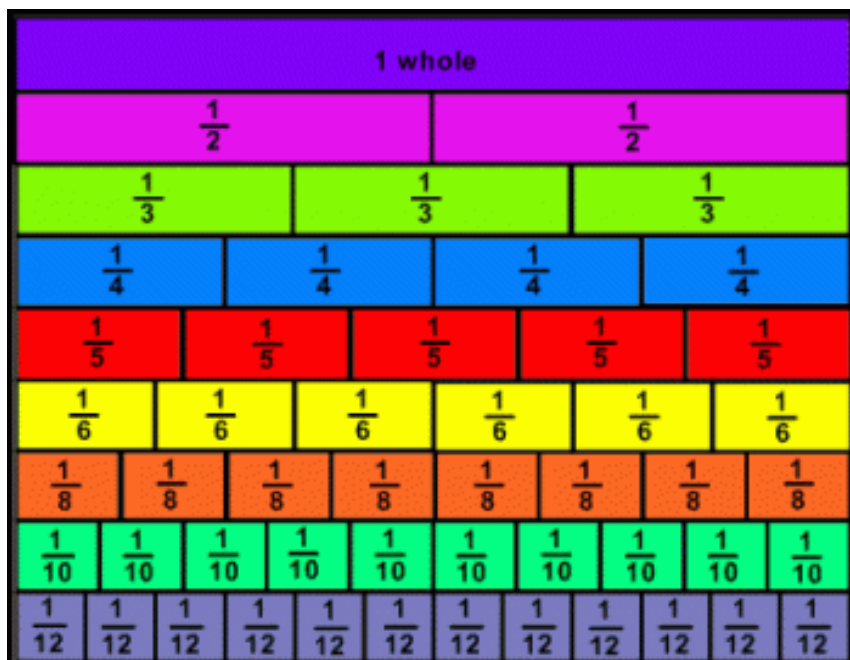
06:15

Monday

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

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

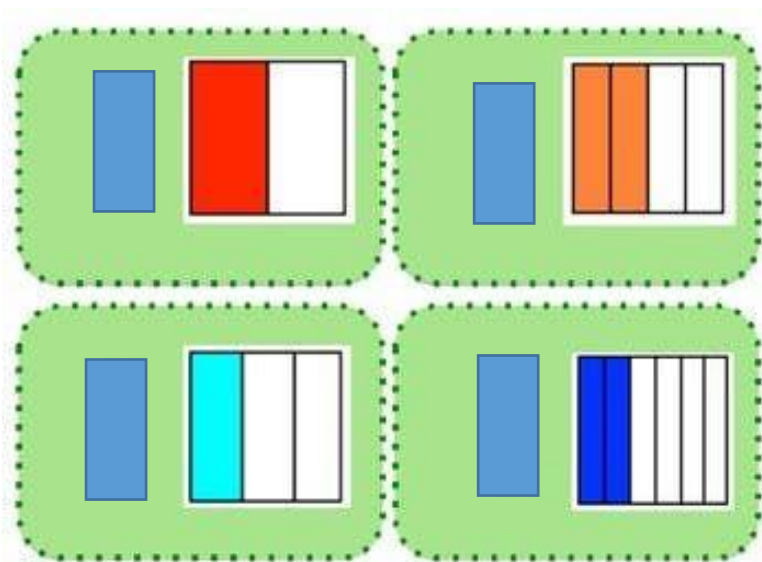
Drawing and discovering equivalent fractions



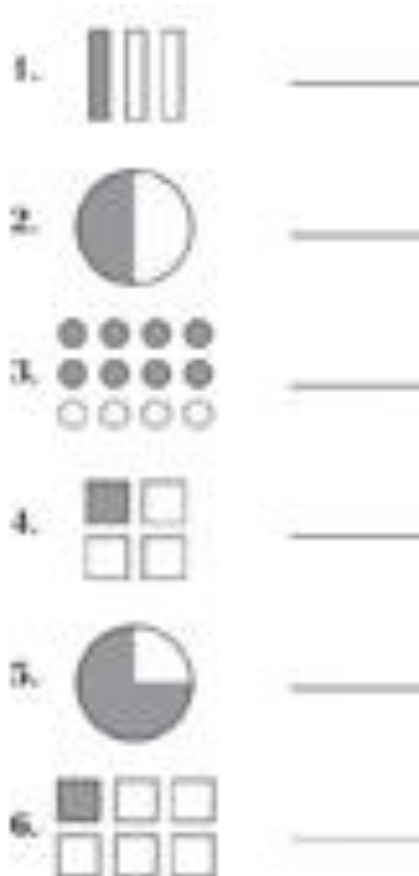
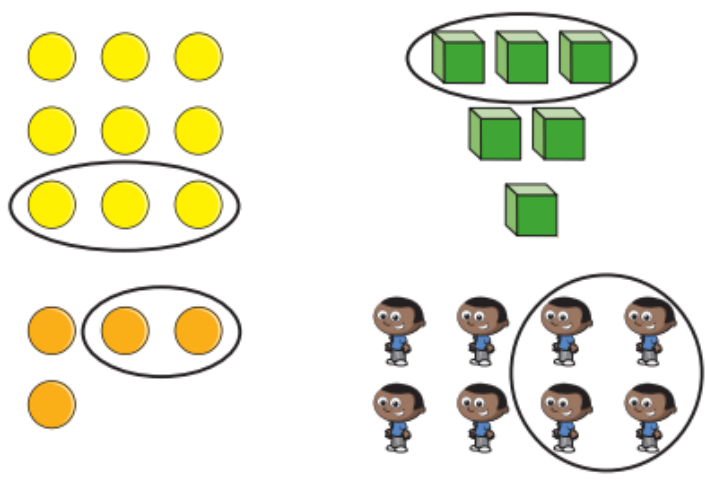
Here is an example of a fraction wall. Use this to help you to identify equivalent fractions.

Mild

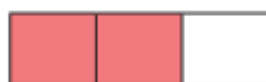
1 - What fractions can you see?



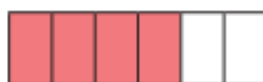
Which groups have $\frac{1}{2}$ circled?



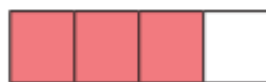
The bar models represent fractions.



A



C



B



D

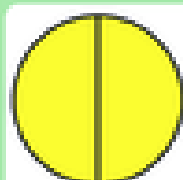
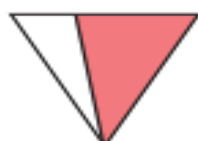
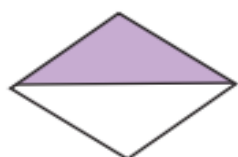
What are the fractions?

Medium

What fraction of each shape is shaded?

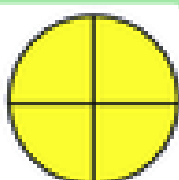


Which shapes have $\frac{1}{2}$ shaded?

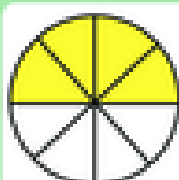


$$\frac{2}{2}$$

=

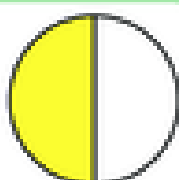


$$\frac{2}{4}$$

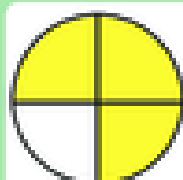


$$\frac{4}{8}$$

=

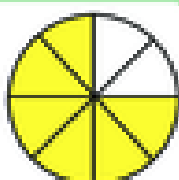


$$\frac{4}{8}$$

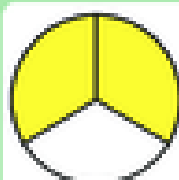


$$\frac{3}{4}$$

=

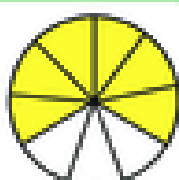


$$\frac{6}{8}$$

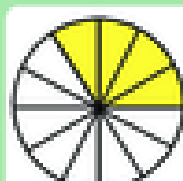


$$\frac{2}{3}$$

=

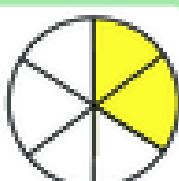


$$\frac{6}{9}$$

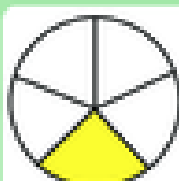


$$\frac{4}{12}$$

=

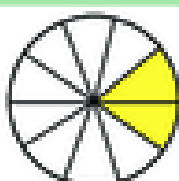


$$\frac{4}{6}$$



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

=



$$\frac{2}{10}$$

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

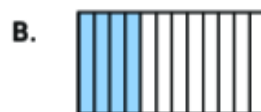
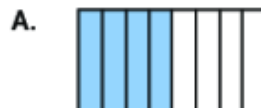
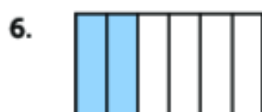
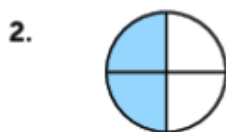
Use the sweets to help you answer the questions.



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

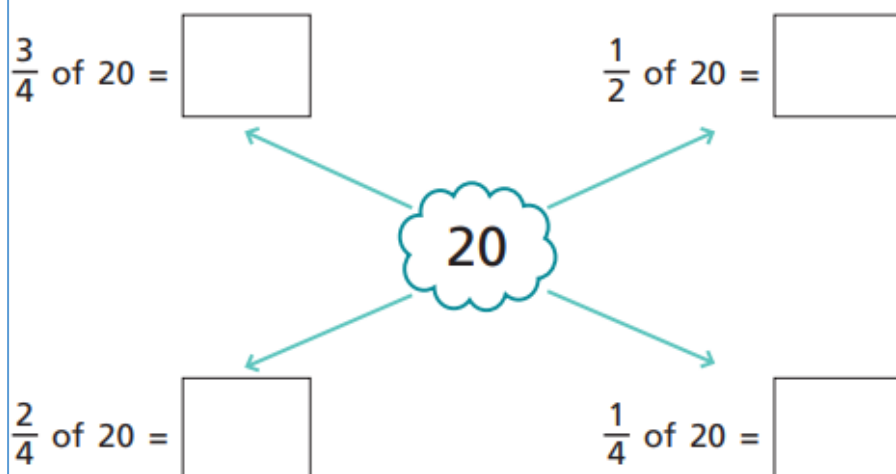
Remember $\frac{2}{4}$ is equivalent to $\frac{1}{2}$

Spicy



1 - Draw a line to match the equivalent fractions

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?
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?

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?

Tuesday

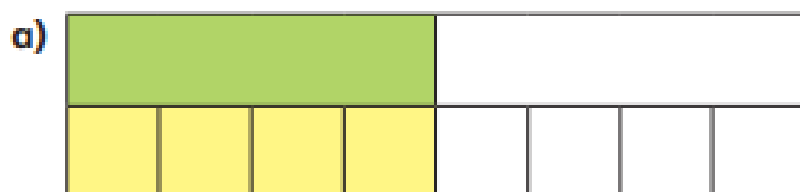
<https://www.bbc.co.uk/bitesize/tags/zmyxxyc/year-3-and-p4-lessons/1>

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

Simplifying equivalent fractions

Mild

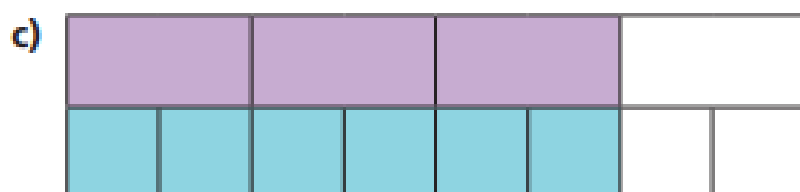
Complete the equivalent fractions.



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



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



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

Write the missing number.

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

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

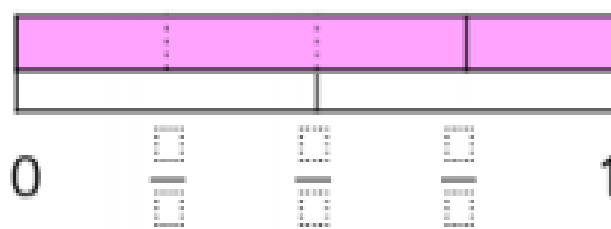
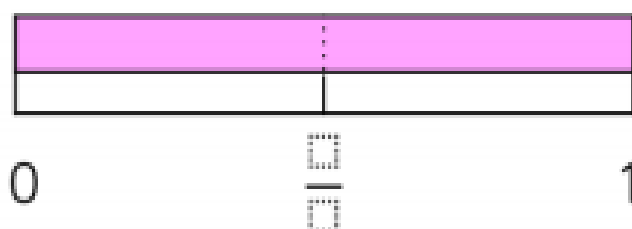


Complete the statements, the first one has been done for you.

Pictorial representations	Fraction	Words
	$\frac{2}{3} = \frac{4}{6}$	Two thirds is equivalent to four sixths.
		_____ is equivalent to _____
		_____ is equivalent to _____
		_____ is equivalent to _____

Medium

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





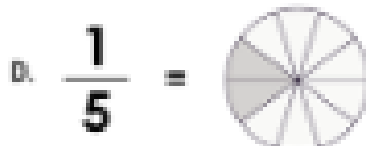
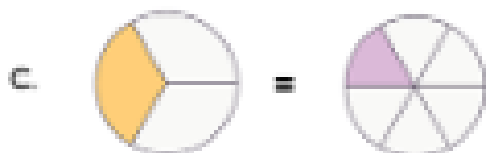
You cannot find $\frac{2}{4}$ of this shape as you cannot divide it into 4 equal parts.



Circle the equivalent fractions that are correct



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



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

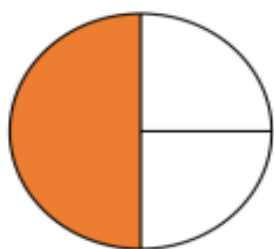


Write as many equivalent fractions as you can.

Whitney says:

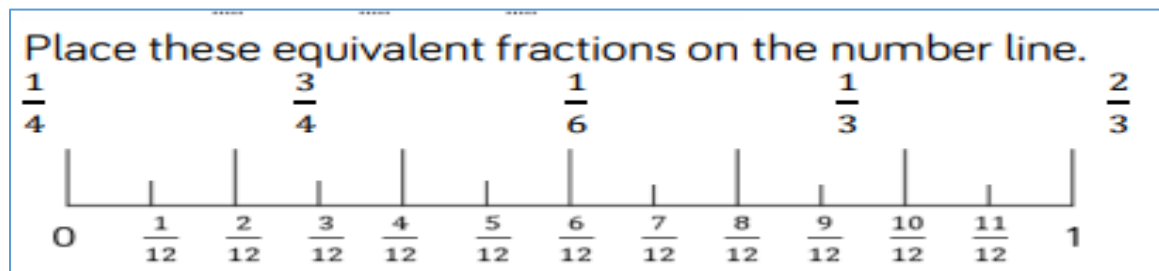


I have shaded a third of my shape.



Do you agree?
Explain why.

Spicy

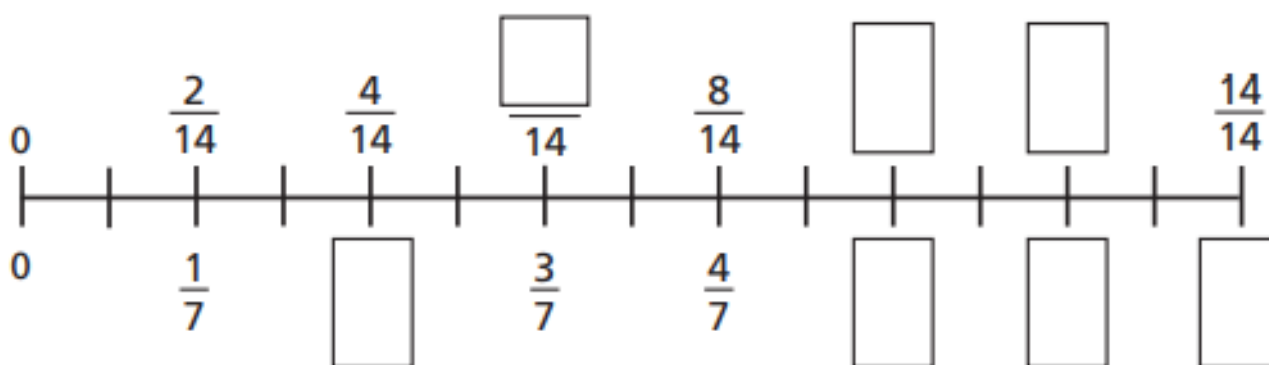


Write the equivalent fractions, use your fraction wall to help you!

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) $\frac{1}{5} = \frac{\quad}{10}$

Find the missing numbers.



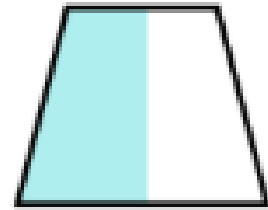
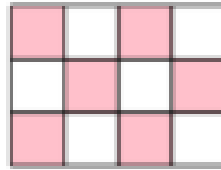
Tommy has a jar of 12 cookies. He gives half of them to Alex, and $\frac{2}{4}$ of them to Mo.



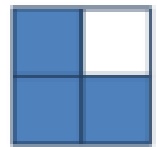
Who gets the most cookies?



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



Wednesday



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

<https://whiterosemaths.com/hjessie100>

[omelearning/year-3/](#)

Equivalent fractions

Mild

Use the fraction wall to complete the equivalent fractions.

$\frac{1}{3}$			$\frac{1}{3}$			$\frac{1}{3}$		
$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$
$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$

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

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

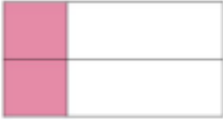
b) $\frac{1}{3} = \frac{\square}{9}$

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

WhiteRoseMaths

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

A



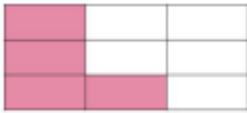
B



C



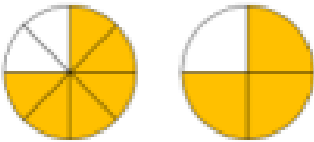
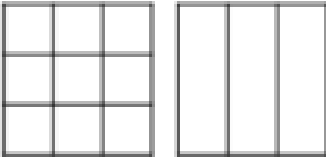
D



© White Rose 2017

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

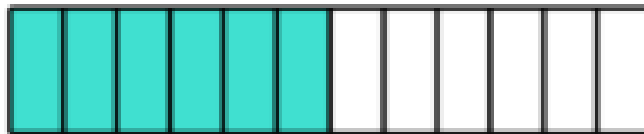
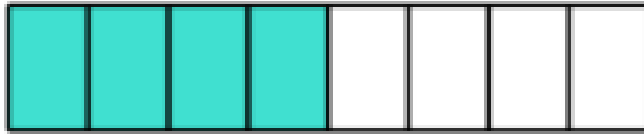
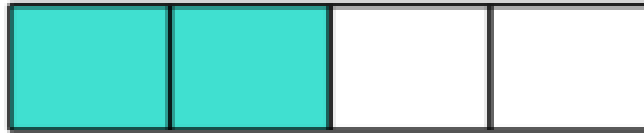
Complete the table,

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

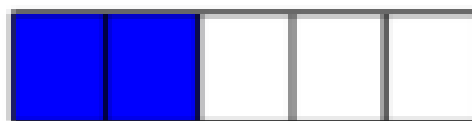
the first one has been done for you.

What equivalent fractions has Emma found for $\frac{2}{4}$?

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



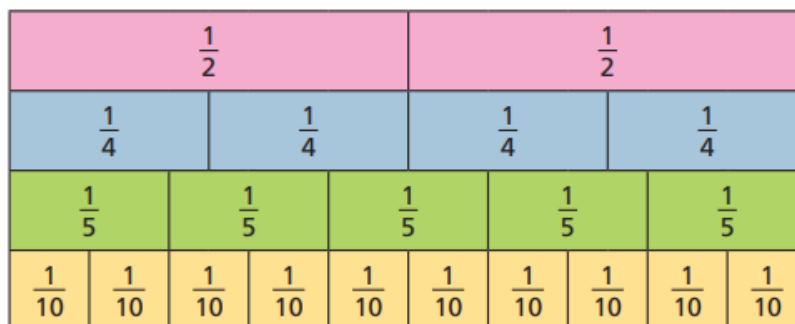
$$\frac{1}{5}$$



Which image shows $\frac{1}{5}$? How do you know?

Medium

Use the fraction wall to decide whether the fractions are equivalent or 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 $\frac{3}{4}$?

White Rose Maths

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



A B C D

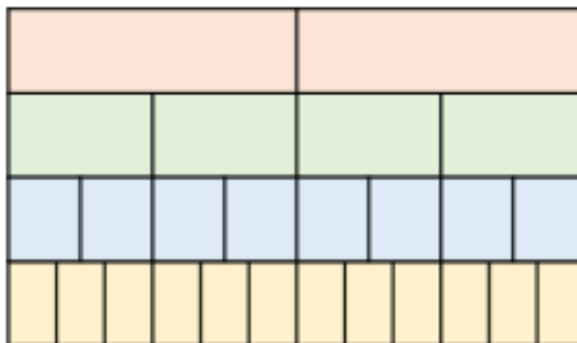
$\frac{3}{2}$ $\frac{6}{4}$ $\frac{3}{8}$ $\frac{6}{8}$

© White Rose 2017

Use the fraction wall to complete the equivalent fractions.

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

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



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

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

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

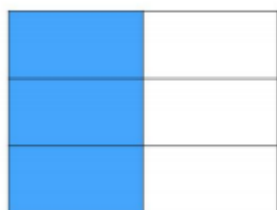
7. $\frac{2}{3} = \frac{8}{\square}$

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

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



Which number sentence is represented by this image?



=



A

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

B

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

C

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

D

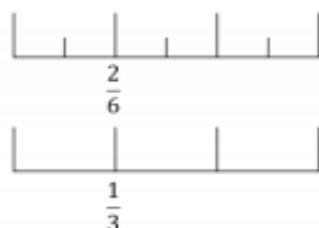
$$\frac{3}{6} = \frac{1}{3}$$

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.

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

Explain your reasoning.



Thursday

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

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

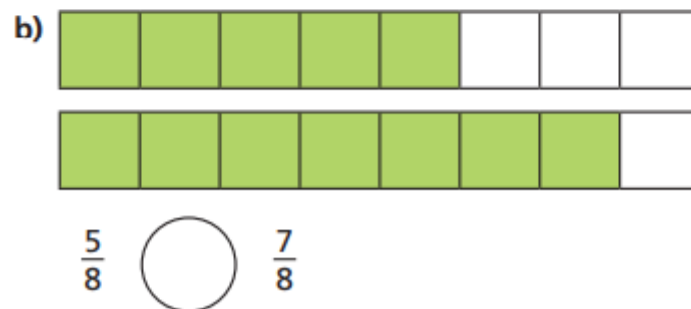
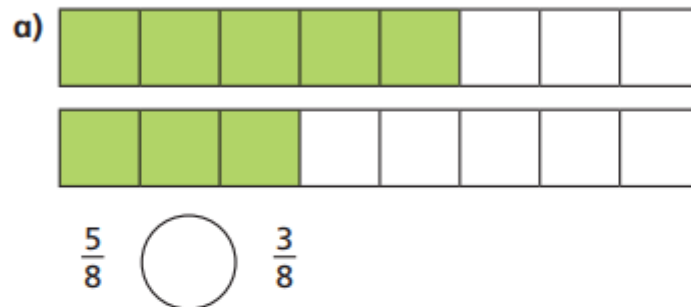
Comparing two fractions

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

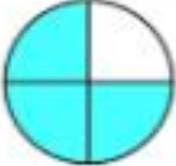
Mild

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

Use the bar models to help you.



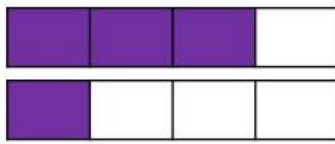
*Fill in the fractions and
compare them*

1)	 $\frac{3}{5}$	>	 $\frac{2}{3}$
2)	 —		 —
3)	 —		 —
4)	 —		 —

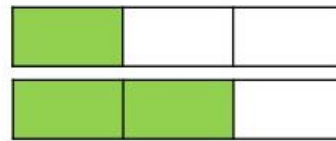
Compare the fractions using comparison symbols.

> = <

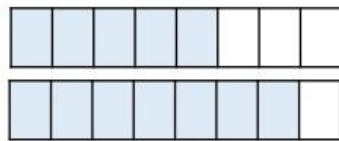
$$\frac{3}{4} \bigcirc \frac{1}{4}$$



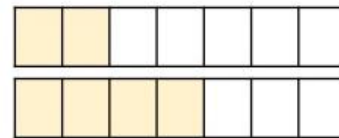
$$\frac{1}{3} \bigcirc \frac{2}{3}$$



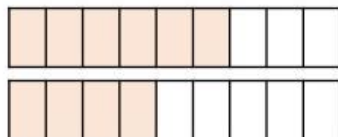
$$\frac{5}{8} \bigcirc \frac{7}{8}$$



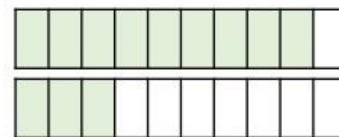
$$\frac{2}{7} \bigcirc \frac{4}{7}$$



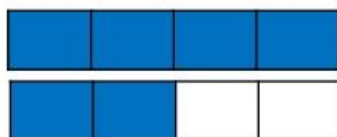
$$\frac{6}{9} \bigcirc \frac{4}{9}$$



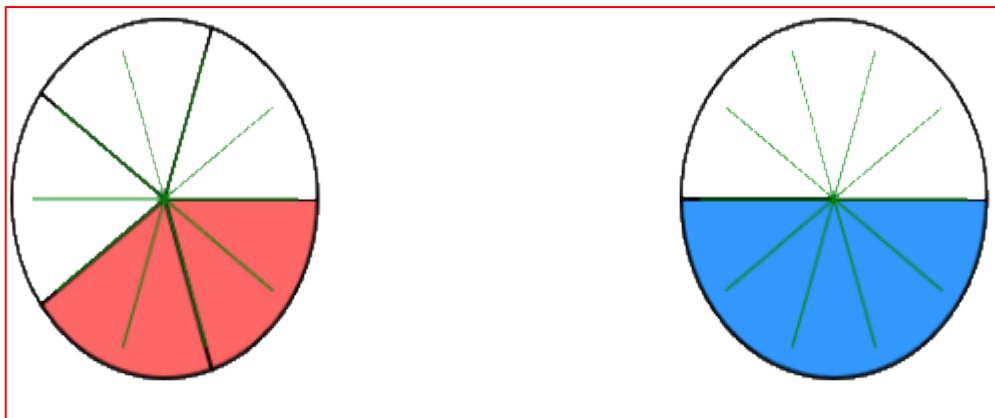
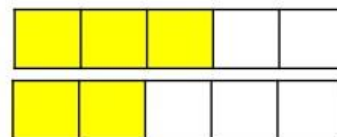
$$\frac{9}{10} \bigcirc \frac{3}{10}$$



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



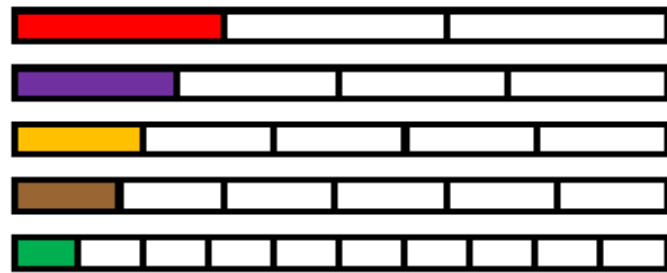
$$\frac{3}{5} \bigcirc \frac{2}{5}$$



Are 4/10 bigger than $\frac{1}{2}$? Why, why not?

Medium

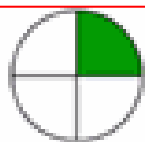
Using the fraction strips below, use the $>$, $<$ or $=$ symbol to compare the fractions.



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

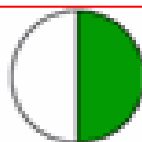
$$\frac{1}{3} \bigcirc \frac{1}{6}$$

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

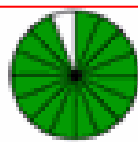


$$\frac{1}{4}$$

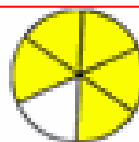
$<$



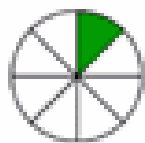
$$\frac{1}{2}$$



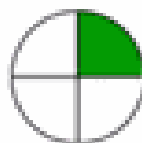
$$\frac{15}{16}$$



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



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

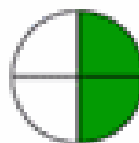


$$\frac{1}{4}$$

4)

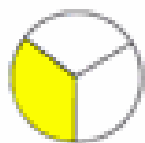


$$\frac{1}{8}$$

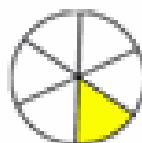


$$\frac{2}{4}$$

Compare the sets of fractions using the greater than, less than and equal symbols.

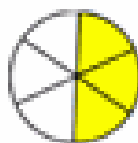


$$\frac{1}{3}$$

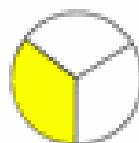


$$\frac{1}{6}$$

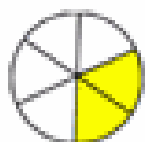
6)



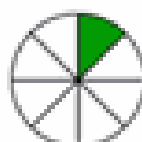
$$\frac{3}{6}$$



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

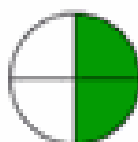


$$\frac{2}{6}$$

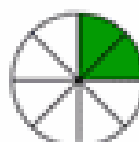


$$\frac{1}{8}$$

8)



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



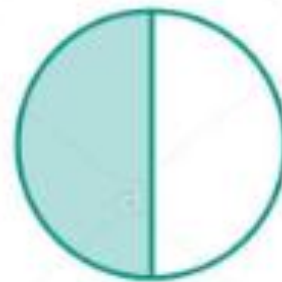
$$\frac{2}{8}$$



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.

Use these images to help!



one half



one third

Extra challenge - What fraction would be bigger than $\frac{1}{2}$? Can you think of more than one?

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.

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) $\frac{13}{15}$ ○ $\frac{13}{15}$

Sort the fractions into the circles.

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

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

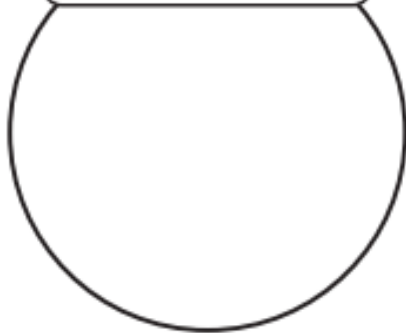
$$\frac{1}{2}$$

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

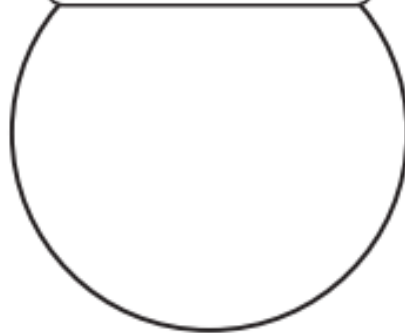
$$\frac{1}{12}$$

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

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



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



Why is Jack wrong?

Jack is comparing fractions.

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



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.

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.

Friday

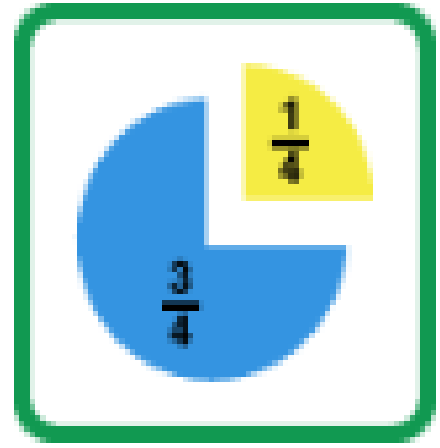
Times Table Rockstars

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