25.11.24

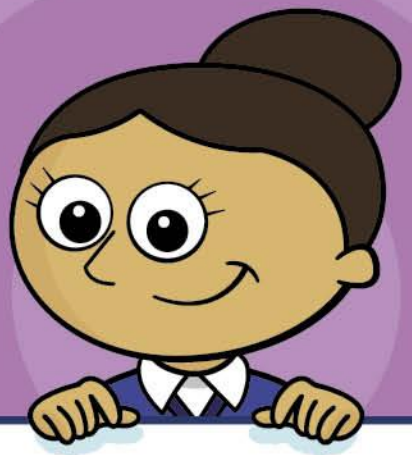
LO: TO find fractions equivalent to a unit fraction

To understand that a fraction is part of a whole

To know that different fractions can represent the same amount

To know that we need to multiply the numerator and denominator to equivalents

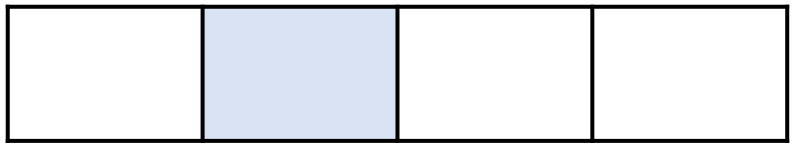
White Rose MATHS

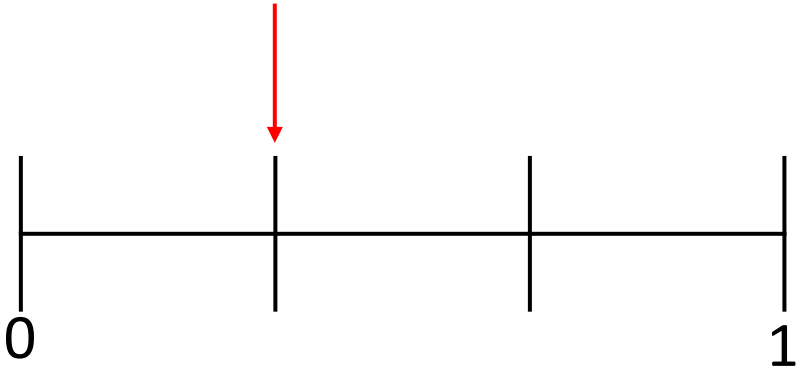


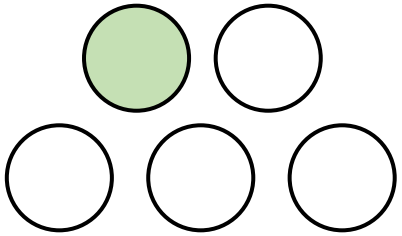
Get ready

Here is your starter.

1) What fractions are represented?



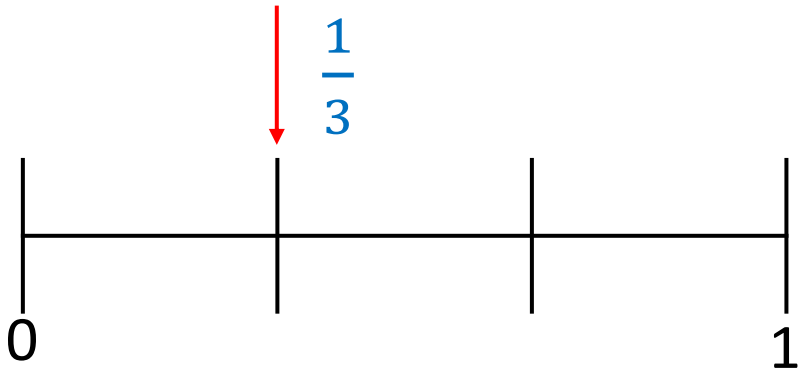


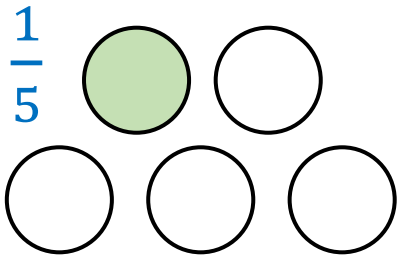


2) $8 \times 3 = \_\_$ $\quad\quad$ $\_\_ \times 8 = 96$

$8 \times \_\_ = 48$ $\quad\quad$ $8 \times \_\_ = 64$

1) What fractions are represented?





2) $8 \times 3 = \underline{24}$

$\underline{12} \times 8 = 96$

$8 \times \underline{6} = 48$

$8 \times \underline{8} = 64$

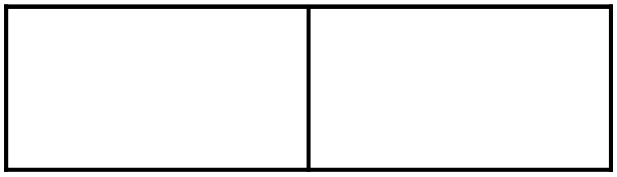
Let's learn

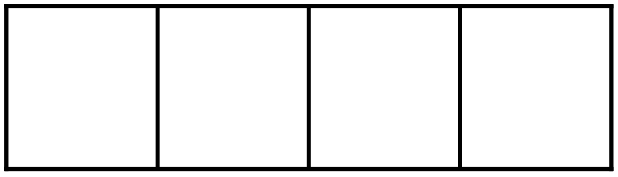
Get ready for today's new learning.

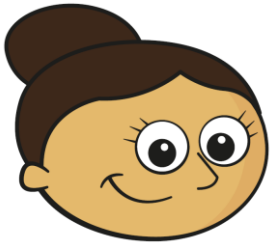
Dora and Dexter each have a strip of paper.

They each fold their paper in half.

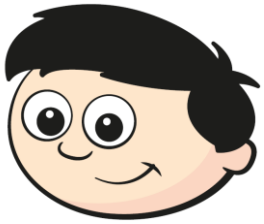
Dexter then folds his in half again.







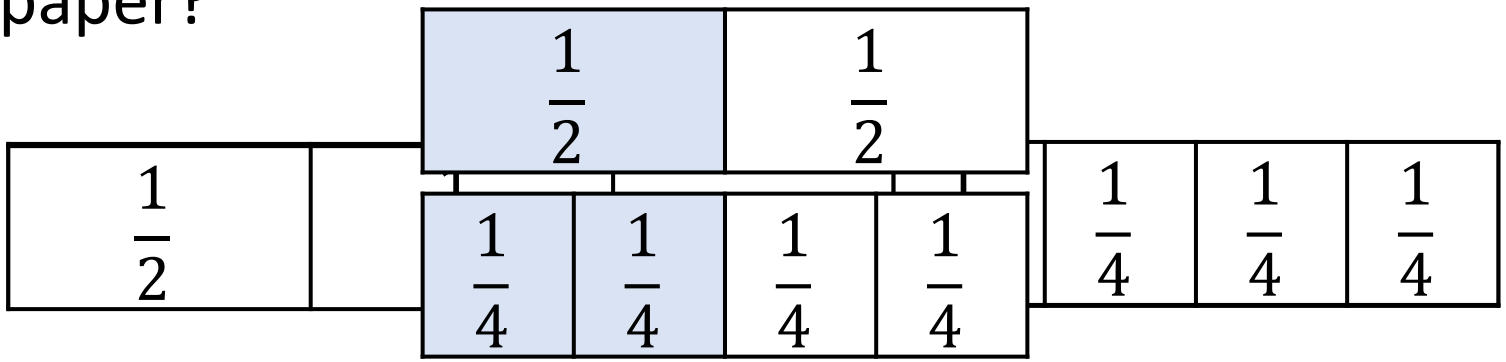
Dora

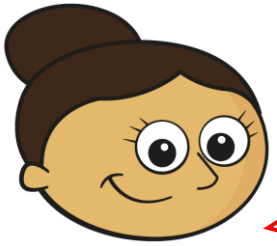


Dexter

Have a think

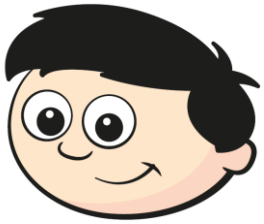
What do you notice?
What fractions can you see on their strips of paper?





Dora

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

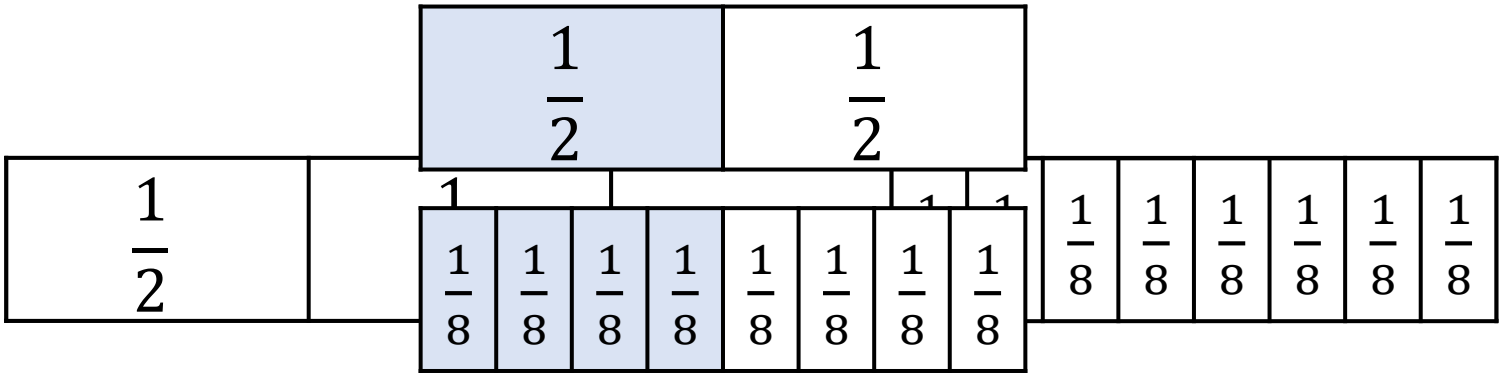


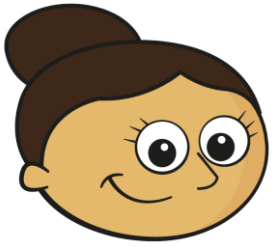
Dexter

Have a think

Dexter folds his paper in half again.

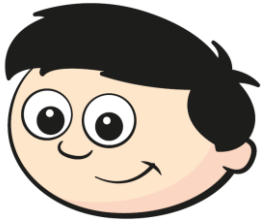
Now what do you notice?





Dora

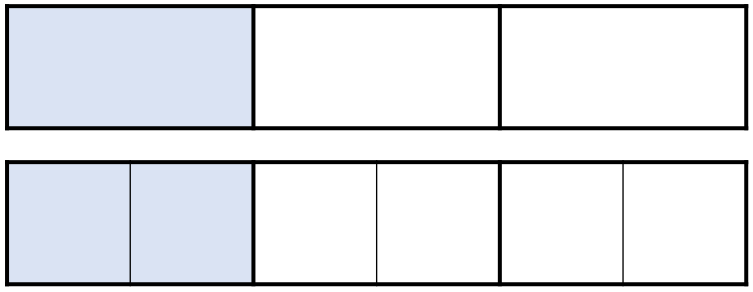
$\frac{1}{2}$ is equivalent to $\frac{4}{8}$



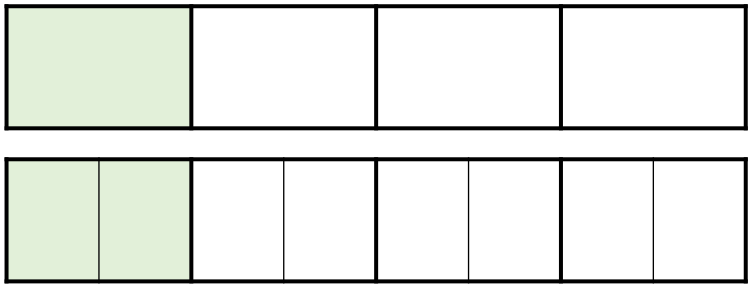
Dexter

What equivalent fractions can you see from these strips of paper?

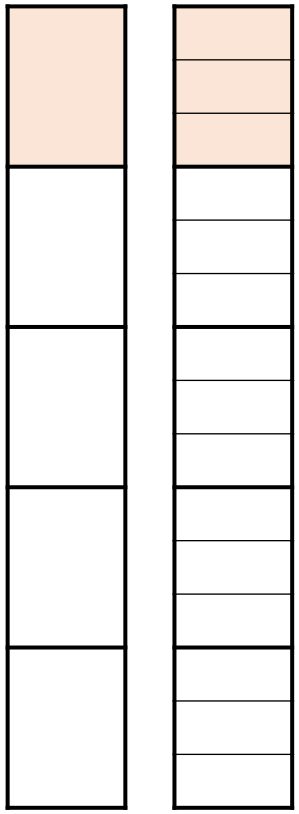
Have a think



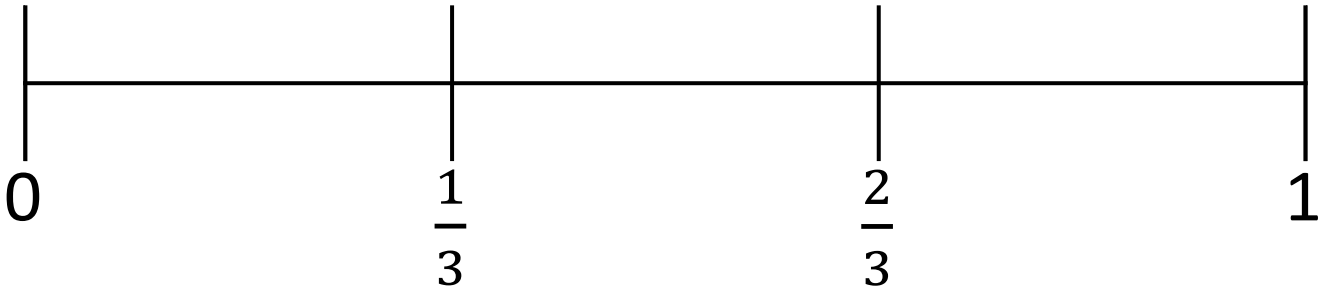
$$\frac{1}{3} = \frac{2}{6}$$

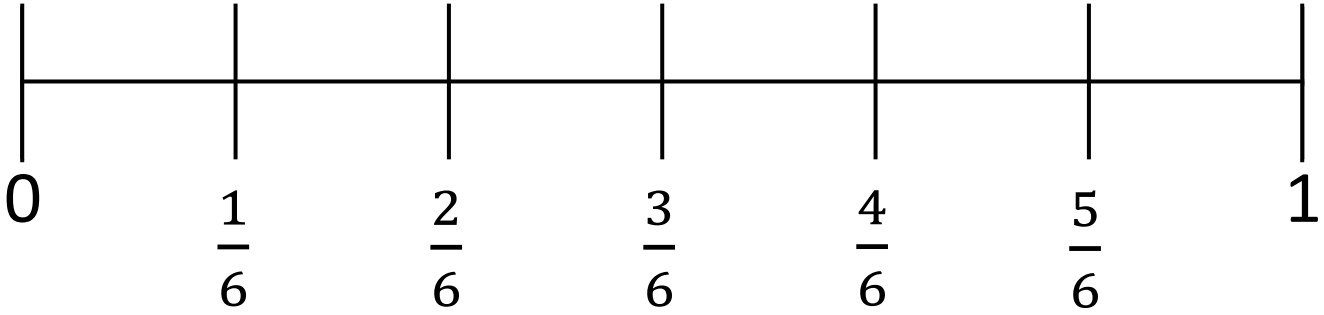


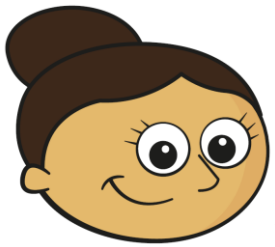
$$\frac{1}{4} = \frac{2}{8}$$



$$\frac{1}{5} = \frac{3}{15}$$

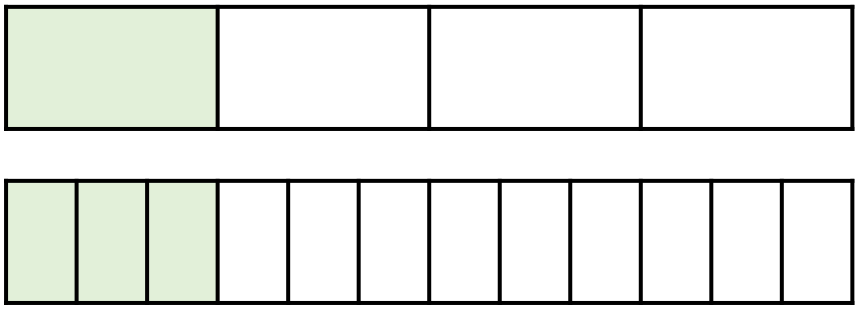






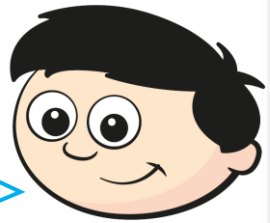
I can see that $\frac{1}{3}$ is equivalent to $\frac{2}{6}$

You can also show equivalent fractions on a number line.

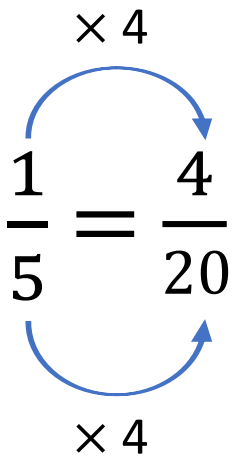


$$\frac{1}{4} \overset{\times 3}{=} \frac{3}{12}$$

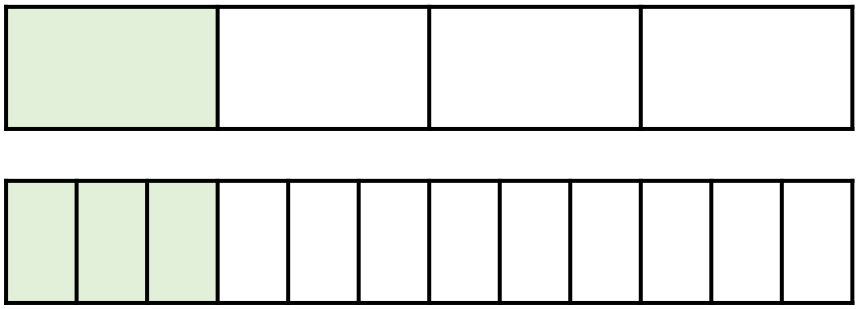
I notice that with equivalent fractions, you multiply the numerator and the denominator by the same amount.



Have a think

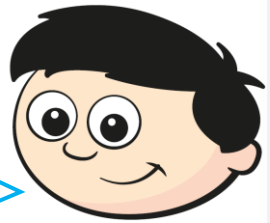


The numerator has been multiplied by 4, so if the denominator is multiplied by 4, then the fractions will be equivalent.



$$\times 4 \quad \frac{1}{4} = \frac{3}{12} \quad \times 4$$

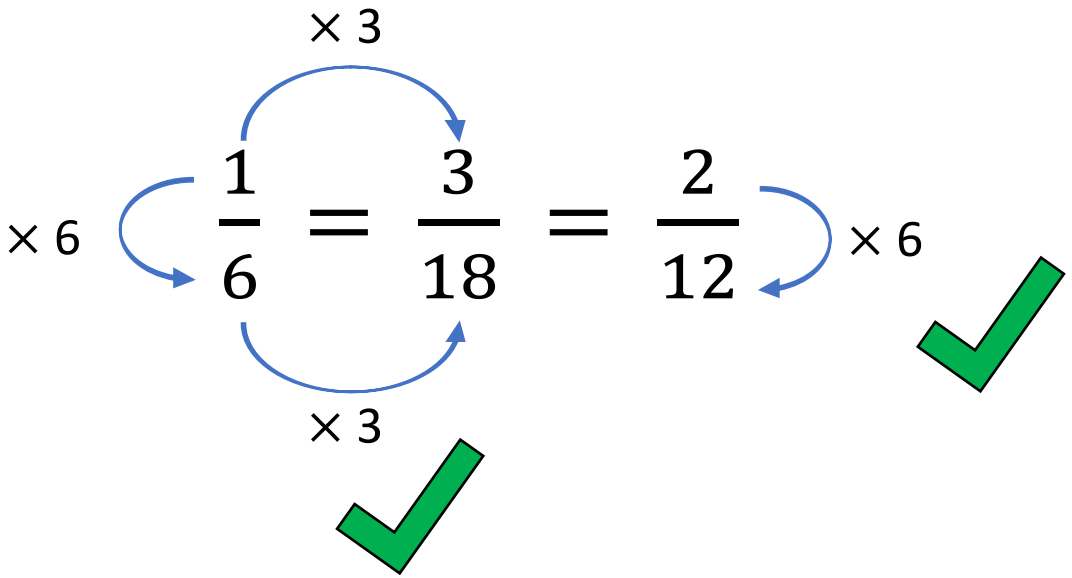
I notice two fractions are equivalent if both numerators multiply by the same number to make the denominators.



$$\times 5 \left(\frac{1}{5} = \frac{5}{25}\right) \times 5$$

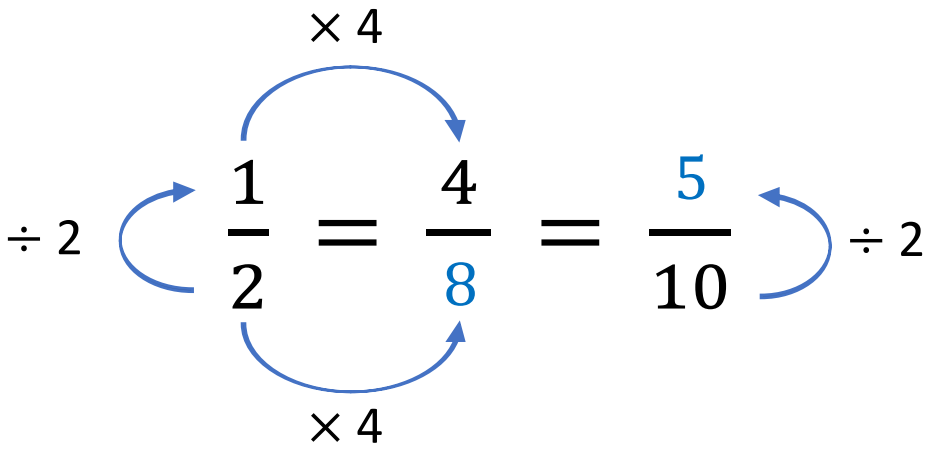
The denominator is 5 times the numerator in both fractions, so the fractions are equivalent .

Are the fractions equivalent?



What are the missing numbers?

Have a think



Your turn

Have a go at the questions on your worksheet