



THIRD SPACE
LEARNING



$$\frac{4}{1} = \frac{2}{3}$$
$$\frac{2}{16} = \frac{1}{8}$$

HELLO!

Today we are going to revise fractions,
decimals and percentages

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

Use the space under each question to show your working out.

Arithmetic Warm Up

Long multiplication

1. $45 \times 32 =$

$$\begin{array}{r} 45 \\ \times 32 \\ \hline \end{array}$$







2. $256 \times 13 =$

$$\begin{array}{r} 256 \\ \times 13 \\ \hline \end{array}$$

Revision on Fractions, Decimals and Percentages

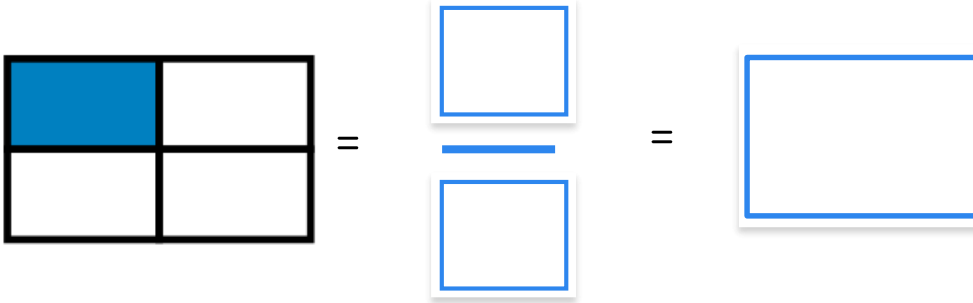


Today we are going to revise how to:

-  find decimal equivalents of fractions
-  represent fractions, decimals and percentage equivalents
-  multiply decimal numbers by a whole number
-  find percentages of an amount
-  multiply fractions by whole numbers and by fractions
-  divide fractions by whole numbers

Revision: Fraction and decimal equivalents

 1. Can a fraction be written as a decimal?




Think about a quarter
– how do you write it
as a fraction and how
do you write it as a
decimal number?

2. So how do you change a fraction into a decimal?

Did you know that the
fraction bar in a fraction
means the same as the
fraction bar in the division
sign?

 3. $\frac{1}{4}$ is the same as $1 \div 4$ so,



$$4 \overline{) 1}$$




$$\frac{1}{4} \leftarrow \text{same} \rightarrow \div$$



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 Complete

Question 1

 What do you notice?

22

Write these in order of size, starting with the smallest.

What do you know? 

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

0.5


$$\frac{3}{5}$$

0.65



smallest

 Can you show your working out?

How could you extend the question? 

Revision: Fractions, decimals and percentages

Percentage (%) simply means 'out of 100'

So when a fraction has 100 as the denominator, it can easily be written as a decimal or a percentage.

$$\frac{3}{4} = \frac{75}{100} \quad \begin{array}{l} \nearrow = 75 \div 100 = 0.75 \\ \searrow = 75\% \end{array}$$

Find the equivalent fraction, making the denominator 100

Think
– how would you write
75% as a fraction and
a decimal?

 1. Write 64% as a fraction and a decimal.



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 Complete

Question 2

 What do you notice?

23

Write these in order of size, starting with the smallest.

What do you know? 

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

0.34


0.7

43%



smallest

 Can you show your working out?

How could you extend the question? 

Revision: Multiplying decimals

When multiplying decimals you need to remember:

- a) Times tables b) Place value

$$3.7 \times 4$$

$$\begin{array}{r} 37 \\ \times 4 \\ \hline \end{array}$$

I know that 37 is ten times bigger than 3.7, so I can do 37×4 and then my answer will be ten times bigger!



What do you think I will need to do with my answer to work out
out
 3.7×4 ?

So, $3.7 \times 4 =$

Revision: Multiplying decimals

When multiplying decimals you need to remember:

- a) Times tables b) Place value

$$1.06 \times 5$$

106 is times bigger than 1.06

So, if I do 106×5 , my answer will be times bigger

$$\begin{array}{r} 106 \\ \times 5 \\ \hline \end{array}$$

So, $1.06 \times 5 =$


Question 3

 Complete


 What do you notice?

Pizzas cost £6.20 each.
Candida buys 5 pizzas for a party.
How much does it cost her?
Write your answer in pounds (£)

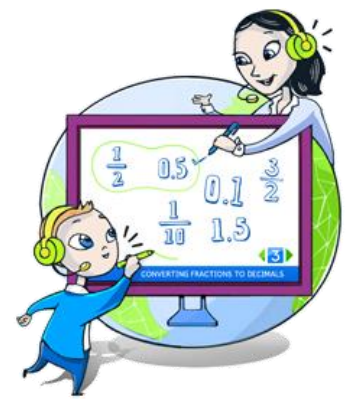





What do you know? 

 Can you show your working out?

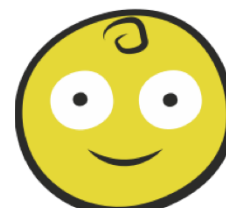
How could you extend the question? 

Let's review:



-  I can find decimal equivalents of fractions
-  I can represent percentages as fractions and decimals
-  I can multiply decimal numbers by a whole number

How do you feel about what we've been doing?



Is there something you would like to go over?

Revision: Finding percentages

Find 30% of 48

Remember
percent mean
out of 100!

1) This whole bar could represent 48
(this is the 100% of the amount)



2) How many equal parts has
this bar been divided into?
So what percent does each part
represent?

4) So how many parts would give you 30%?
What is 30% of 48?
Check your answer – does it seem reasonable?

3) What number would go into
each part if the whole bar is 48?

1. What would 35% of 48 be?

35% is 5%
more than 30%. If I know
what 10% is, I'm sure I can
use this information to
work out 5%!

Question 4

 Complete

 What do you notice?


15

200 children went on holiday.

10% of the children went to Wales.

25% of the children went to Scotland.


How many **more** children went to Scotland than went to Wales?

What do you know? 

 Can you show your working out?

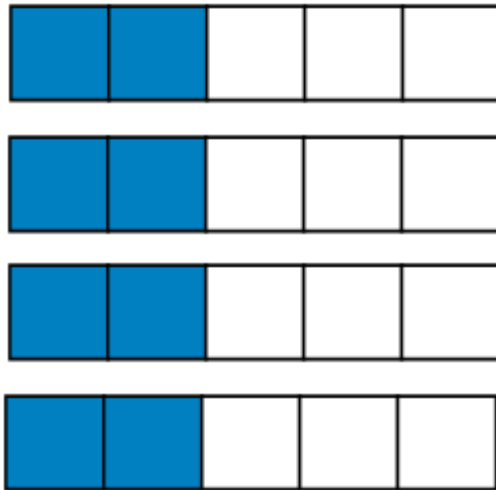
 Show your working

children

How could you extend the question? 

Revision: Multiplying fractions by whole numbers and by fractions

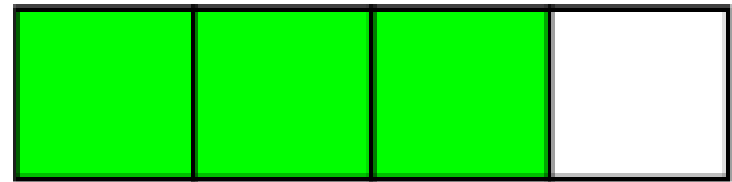
1. $\frac{2}{5} \times 4$



How many 'fifths' can you see?

$$\frac{2}{5} \times 4 = \boxed{}$$

2. $\frac{1}{2} \times \frac{3}{4}$



This is the same as saying 'half of $\frac{3}{4}$ '

Split this $\frac{3}{4}$ in half. What are the parts called now?

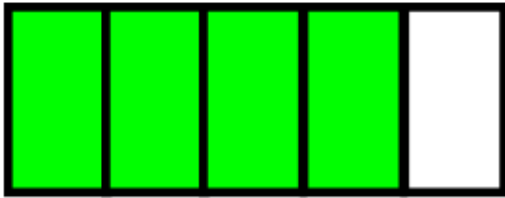
How many of these parts are shaded in one half?

$$\frac{1}{2} \times \frac{3}{4} = \boxed{}$$

Revision: Dividing fractions by whole numbers

1. $\frac{4}{5} \div 2$

What does this mean? -
can you draw a line on
this diagram to
represent this?



2. $\frac{3}{4} \div 2$



So, $\frac{4}{5} \div 2 = \frac{\square}{\square} = \frac{\square}{\square}$


So, $\frac{3}{4} \div 2 = \frac{\square}{\square}$

What do you
notice about
the calculation
and your
answer?


Question 5



Complete


 What do you notice?

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

What do you know? 




 Can you show your working out?



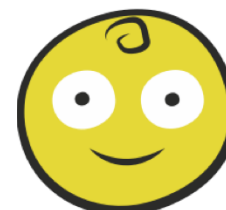
How could you extend the question? 



Let's review:

-  I can find percentages of an amount
-  I can multiply fractions by whole numbers and by fractions
-  I can divide fractions by whole numbers

How do you feel about what we've been doing?



Is there something you would like to go over?