



THIRD SPACE
LEARNING



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

60 copies

$$\frac{2}{8} = \frac{2}{8}$$
$$\frac{2}{16}$$

HELLO!

Today we are going to revise fractions,
decimals and percentages

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



Arithmetic Warm Up

Long multiplication

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

1. $45 \times 32 =$

45

$\times 32$

2. $256 \times 13 =$

256







$\times 13$



**THIRD SPACE
LEARNING**

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

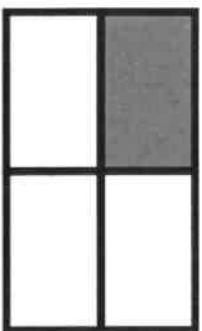




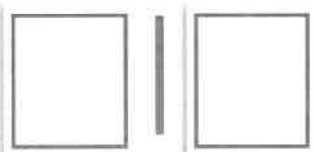
THIRD SPACE
LEARNING

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?

$$\frac{1}{4} \quad \text{same} \quad \div$$

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

$$4 \overline{) \quad \quad \quad}$$

Question 1

<p>What do you notice?</p>	<p>22 Write these in order of size, starting with the smallest.</p> <p style="text-align: center;"> $\frac{2}{3}$ 0.5 $\frac{3}{5}$ 0.65 </p> <p style="text-align: center;">  <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> </p> <p style="text-align: right;">smallest</p>	<p>What do you know?</p>
<p>Can you show your working out?</p> <p></p>	<p>How could you extend the question?</p> <p style="text-align: right;">?</p>	



THIRD SPACE
LEARNING

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.

$$\frac{3}{4} = \frac{75}{100} \quad \rightarrow \quad = 75 \div 100 = 0.75$$

$$\quad \quad \quad \rightarrow \quad = 75\%$$

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.

Question 2

What do you notice?

23

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

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

$$0.34$$

$$0.7$$

$$43\%$$



smallest

Can you show your working out?



How could you extend the question?





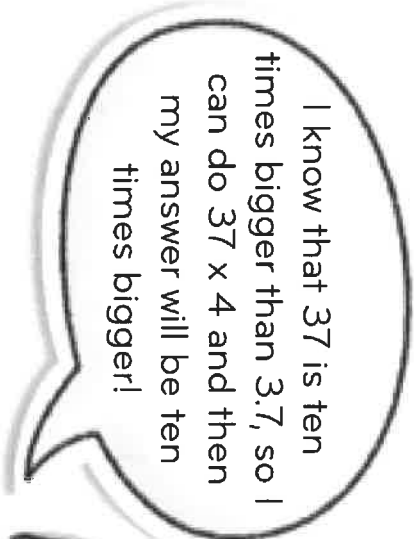
Revision: Multiplying decimals

When multiplying decimals you need to remember:


- a) Times tables
- b) Place value

$$3.7 \times 4$$

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



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 3.7×4 ?

$$\text{So, } 3.7 \times 4 =$$



Revision: Multiplying decimals

When multiplying decimals you need to remember:

- a) Times tables
- b) Place value

1.06×5 106 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

<p> What do you notice?</p>	<p>Pizzas cost £6.20 each. Candida buys 5 pizzas for a party. How much does it cost her? Write your answer in pounds (£)</p> 	<p> What do you know?</p>
<p> Can you show your working out?</p>		

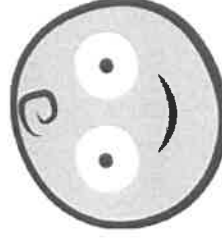
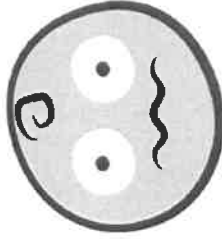
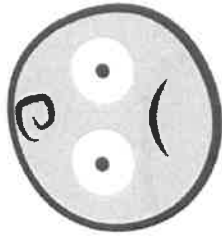


**THIRD SPACE
LEARNING**

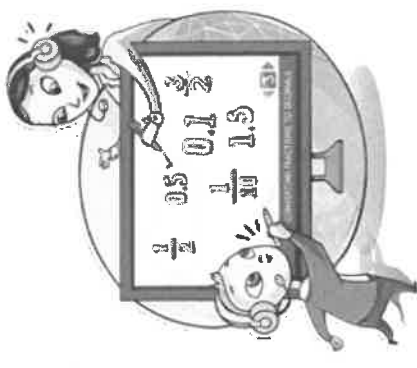
Let's review:

-  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

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%!

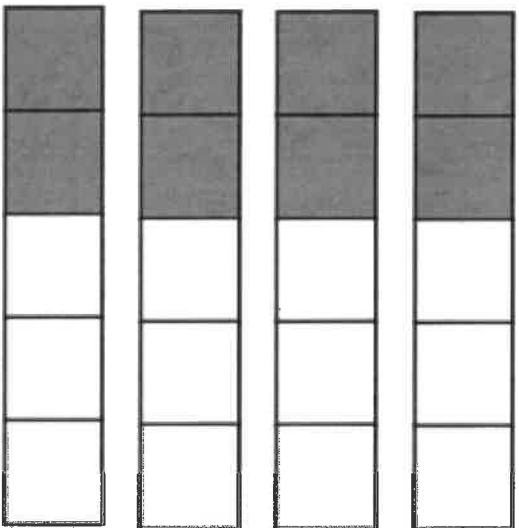
Question 4

 Complete

<p> What do you notice?</p>	<p>15</p> <p>200 children went on holiday.</p> <p>10% of the children went to Wales.</p> <p>25% of the children went to Scotland.</p> <p>How many more children went to Scotland than went to Wales?</p> <p> Show your working</p> <div style="border: 1px solid black; padding: 10px; width: fit-content; margin-left: auto; margin-right: auto;"> <p>children</p> </div>	<p>What do you know?</p>
<p> Can you show your working out?</p>	<p>How could you extend the question?</p>	

Revision: Multiplying fractions by whole numbers and by fractions

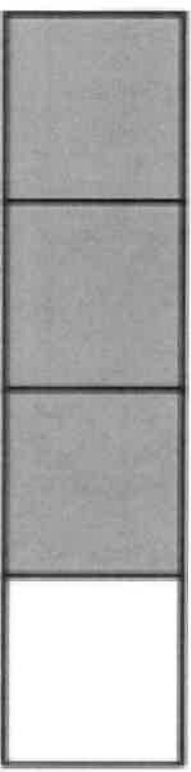
1. $\frac{2}{5} \times 4$



How many 'fifths' can you see?

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

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



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

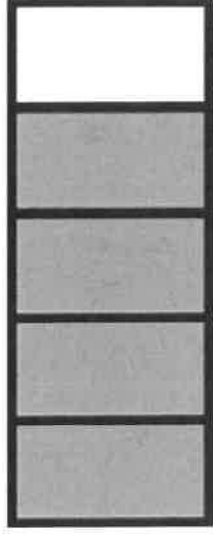
Split this $\frac{3}{4}$ in half. What are the parts called now?

How many of these parts are shaded in one half?

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

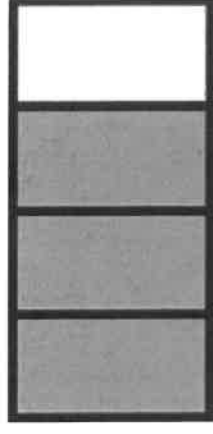
Revision: Dividing fractions by whole numbers

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

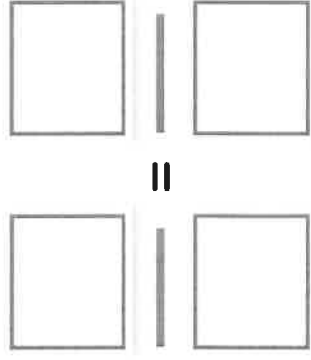


What does this mean? -
can you draw a line on
this diagram to
represent this?

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

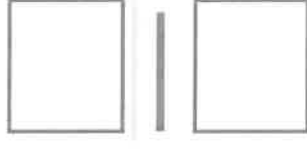


So, $\frac{4}{5} \div 2 =$



What do you
notice about
the calculation
and your
answer?

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









Question 5




Complete

<p> What do you notice?</p>	$\frac{5}{8} \div 4 =$	<p>What do you know? </p>
<p> Can you show your working out?</p>		<p>How could you extend the question? </p>



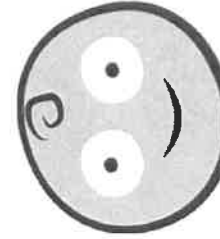
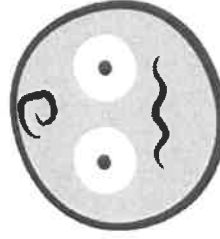
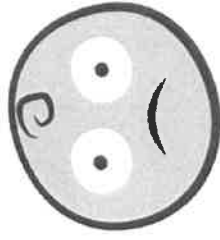
Let's review:

 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?

