

Monday 4th May 2020

L.O. – To focus on word problems involving addition and subtraction.

*Parents – Please note that the answers for most problems will be shown on the next slide. Please get your children to answer these prior to moving to next slide.

Problems of the day.

Hit space bar for answers but don't do it until you've tried!

- 1** Use $<$, $>$ or $=$ to make these number sentences correct.

$$9 \times 7 \bigcirc 8 \times 7$$

$$48 \div 2 \bigcirc 48 \div 4$$

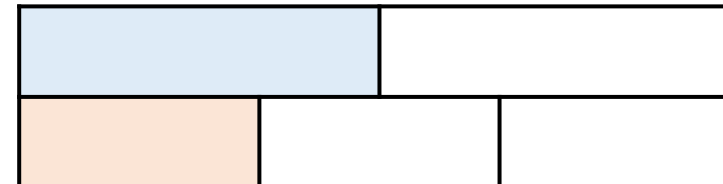
$$300 \times 2 \bigcirc 20 \times 30$$

- 2** There are 1,500 children in a school.
565 of the children are girls.
How many more boys than girls are in the school?

- 3** Mr Patel writes a number on the board.

- Leon finds $\frac{1}{2}$ of the number.
- Sophie finds $\frac{1}{3}$ of the number.
- Leon's number is 7 more than Sophie's.

What is the number Mr Patel started with? This bar model may help you.



Problems of the day.

Hit space bar for answers but don't do it until you've tried!

- 1 Use $<$, $>$ or $=$ to make these number sentences correct.

$$9 \times 7 \bigcirc 8 \times 7$$

$$48 \div 2 \bigcirc 48 \div 4$$

$$300 \times 2 \bigcirc 20 \times 30$$

- 2 There are 1,500 children in a school.
565 of the children are girls.
How many more boys than girls are in the school?
 $1,500 - 565 = 935$
 $935 - 565 = 370$
There are 370 more boys than girls.

- 3 Mr Patel writes a number on the board.

- Leon finds $\frac{1}{2}$ of the number.
- Sophie finds $\frac{1}{3}$ of the number.
- Leon's number is 7 more than Sophie's.

What is the number Mr Patel started with? This bar model may help you.

21			21		
7	7	7	7	7	7

Mr Patel started with 42

Reminder Information

- Complete the calculation below

$$\begin{array}{r} 638 \\ + 445 \\ \hline \\ \hline \end{array}$$

Reminder Information

- The Carried Number - some people place the number at the bottom & some at the top. Which one are you?

Don't forget to
place the 10 in the
correct columns!

$$\begin{array}{r} 638 \\ + 445 \\ \hline 1083 \\ \hline 1 \end{array}$$

Formal Addition

- Here are three formal addition calculations.

Are the answers and method correct? Explain any errors.

$$\begin{array}{r} 682 \\ + 283 \\ \hline 8165 \\ \hline \end{array}$$

$$\begin{array}{r} 729 \\ + 364 \\ \hline 1083 \\ \hline \end{array}$$

1

$$\begin{array}{r} 486 \\ + 347 \\ \hline 833 \\ \hline \end{array}$$

Formal Addition

$$\begin{array}{r} 682 \\ + 283 \\ \hline 8165 \end{array}$$

80 + 80 = 160,
but the hundred
must be carried
to add to the
600 + 200. The
answer is 965.

$$\begin{array}{r} 729 \\ + 364 \\ \hline 1083 \\ \hline 1 \end{array}$$

The carried 10
must be added
to the 8. The
answer is 1093.

$$\begin{array}{r} 486 \\ + 347 \\ \hline 833 \end{array}$$

correct

Formal Subtraction

- Here are three formal subtraction calculations. Are the answers and method correct? Explain any errors.

$$\begin{array}{r} 823 \\ - 417 \\ \hline 414 \\ \hline \end{array}$$

$$\begin{array}{r} \overset{6}{\cancel{7}}\overset{1}{4}5 \\ - 261 \\ \hline 484 \\ \hline \end{array}$$

$$\begin{array}{r} \overset{9}{\cancel{6}}\overset{1}{0}1 \\ - 437 \\ \hline 264 \\ \hline \end{array}$$

Formal Subtraction

$$\begin{array}{r} 823 \\ - 417 \\ \hline 414 \end{array}$$

3 – 7 would be -4 not 4. A ten is “exchanged” from the 20, making it 10, and then 13 – 7 = 6, and 10 – 10 = 0, so the answer is 406.

$$\begin{array}{r} \overset{6}{\cancel{7}}\overset{1}{4}5 \\ - 261 \\ \hline 484 \end{array}$$

correct

$$\begin{array}{r} \overset{9}{\cancel{6}}\overset{1}{0}1 \\ - 437 \\ \hline 264 \end{array}$$

10 has been exchanged, but it can't be exchanged from 0 to leave 9. A hundred is taken from 600, leaving 90 and making 11 – 7. The answer is 164.

Which Operations

- On Sunday, Jacob spent 86 minutes on his maths homework and 37 minutes reading. On Tuesday, he spent 69 minutes on his project.
- What calculations will you use to find the difference between the time spent on homework on Sunday and Tuesday?



Which Operations

- On Sunday, Jacob spent 86 minutes on his maths homework and 37 minutes reading. On Tuesday, he spent 69 minutes on his project.
- What calculations will you use to find the difference between the time spent on homework on Sunday and Tuesday?

$86 + 37 = 123$ minutes on
Sunday

$123 - 69 = 54$ minutes
difference

- Write a different word problem that uses the same calculation to find the answer.

Which Operations

- Jacob received £25.90 for his birthday. He spent £8.99 on a book and £7.50 on a computer game.
- Show three different calculation steps you could use to find how much money he has left.



- Share your answers with an adult or older sibling. Did they agree?

Which Operations

- Jacob received £25.90 for his birthday. He spent £8.99 on a book and £7.50 on a computer game.
- Show three different calculation steps you could use to find how much money he has left.

1. $£25.90 - £8.99 = £16.91$

2. $£16.91 - £7.50 = £9.41$

3. $£25.90 - £7.50 = £18.40$

4. $£18.40 - £8.99 = £9.41$

5. $£8.99 + £7.50 = £16.49$

6. $£25.90 - £16.49 = £9.41$

- Share your answers with an adult or older sibling. Did they agree?

Which Operations

- At the beginning of the day, a grocer has 239 apples. He receives another 144 from his supplier and sells 307 during the day.
- Khalid calculates how many apples the grocer has by the end of the day:
 - $307 - 239 = 68$, $68 + 144 = 212$ apples left.
 - Explain the mistake Khalid has made.



Which Operations

- At the beginning of the day, a grocer has 239 apples. He receives another 144 from his supplier and sells 307 during the day.

Khalid began by subtracting the number of apples at the beginning of the day from the number of apples sold. The answer of 68 is then the number of the apples delivered that day that were sold, so the answer would come from $144 - 68 = 76$.

Another way would be to add the number of apples at the beginning of the day to the apples delivered: $239 + 144 = 383$.

Then subtract the number sold from this total: $383 - 307 = 76$

- Come up with your own word problem with a mistake for someone else to spot.

Tasks

Complete –

- Worksheet.

Please complete the questions in the exercise books you were given. If you cannot print the worksheet then do not worry. Just show all your working out and write the answer under today's date in your books.

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learning@wembleyprimary.brent.sch.uk

Worksheet

- A pizza shop makes 176 pizza bases before opening. Over the evening, they sell 247 pizzas. During the evening, they make another 80 pizza bases. How many pizza bases will be left at the end of the evening?

- Bailey says they have 151 pizza bases left.
- Ashleigh says they have 9 pizza bases left.
- Who is correct and what mistakes have been made?
 - What other errors might be made?

Alisha has £18.35 in her purse. Her father gives her £5 pocket money. She buys a book for £7.99 and a bag for £13.49. How much will she have left?



- Naomi says Alisha has £1.87 left.
- Jack says Alisha has £3.13 left.
- Who is correct and what mistakes have been made?
- What other errors might be made?

Here is a bar model.

A	B
631,255	

A is an odd number which rounds to 100,000 to the nearest ten thousand. It has a digit total of 30

B is an even number which rounds to 500,000 to the nearest hundred thousand. It has a digit total of 10

A and B are multiples of 5.

What are possible values of A and B?

Ken is playing a game. He has 4,289 points.

Then he scores another 355 points.

Ken's target is 6,000 points.

How many **more** points does Ken need to reach his target?

Extra Challenge

The sum of four whole numbers is 23.

The difference between the smallest and the largest number is 6.

All four numbers are different.

What could the four numbers be?

*Find **all the possible answers** to this question.*

A cup of tea and a biscuit costs £1.30.

A cup of tea costs 60p more than a biscuit.

How much does a biscuit cost?



Fill in the missing digits in this calculation:

$$\square 8 \square + 3 \square 5 = 1052$$

I know... so...

$$200 - 15 = 185$$

$$2000 - 15 = \underline{\hspace{2cm}}$$

$$20000 - 15 = \underline{\hspace{2cm}}$$

I know... so...

$$5001 - 2998 = \underline{\hspace{2cm}}$$

$$5000 - 3000 = 2000$$

$$5003 - \underline{\hspace{2cm}} = 1994$$

Tuesday 5th May 2020

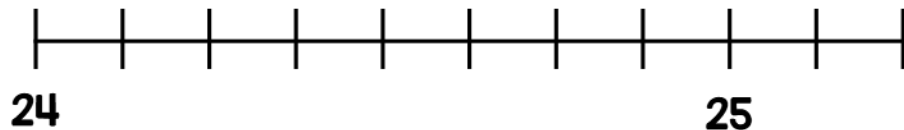
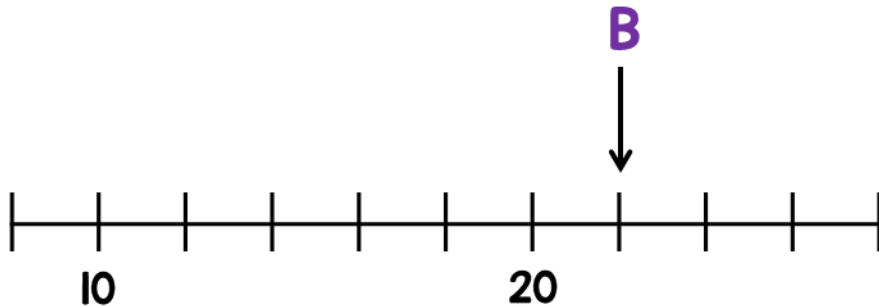
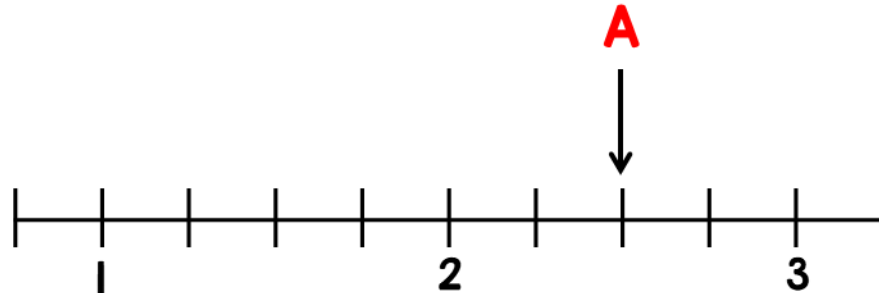
L.O. – To understand equivalents of percentage, decimals and fractions.

Problems of the day.

Hit space bar for answers but don't do it until you've tried!

1 Given that $A + B = C$

Draw an arrow pointing to C



2 George has a box of counters.

- For every 2 red counters there are 5 blue ones.
- George removes 36 blue counters from the box.
- There are now the same amount of red and blue counters.

How many red counters were in the box at the start?

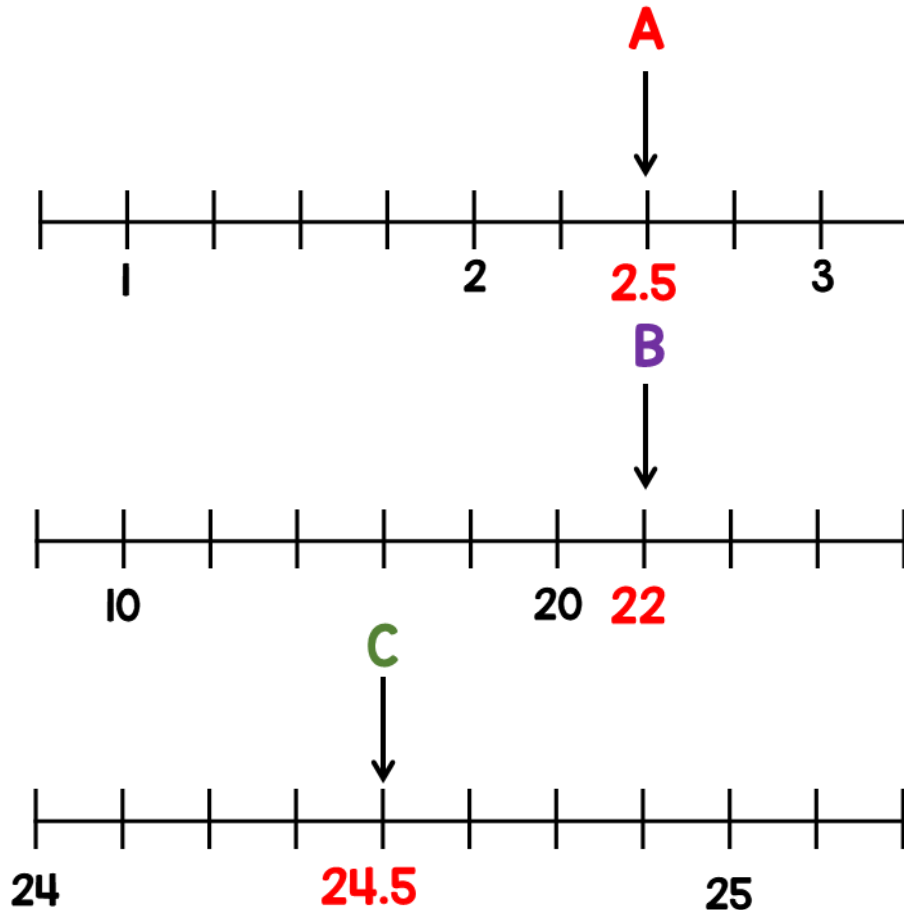
3 Elijah says he divided 32 by a number and got 64
Is this possible?

Problems of the day.

Hit space bar for answers but don't do it until you've tried!

1 Given that $A + B = C$

Draw an arrow pointing to C



2 George has a box of counters.

- For every 2 red counters there are 5 blue ones.
- George removes 36 blue counters from the box.
- There are now the same amount of red and blue counters.

How many red counters were in the box at the start? **24 red counters.**

3 Elijah says he divided 32 by a number and got 64

Is this possible?

Yes, he could divide by 0.5

Equivalences

Complete this table of equivalences:

Fraction	Decimal	Percentage
	0.5	
$\frac{3}{4}$		
$\frac{2}{5}$		
		12.5%
	0.875	
		70%
	0.33	33%
$1 \frac{1}{4}$		

Equivalences

Complete this table of equivalences:

Fraction	Decimal	Percentage
$\frac{1}{2}$	0.5	50%
$\frac{3}{4}$	0.75	75%
$\frac{2}{5}$	0.4	40%
$\frac{1}{8}$	0.125	12.5%
$\frac{7}{8}$	0.875	87.5%
$\frac{7}{10}$	0.7	70%
$\frac{1}{3}$ or $\frac{33}{100}$	0.33	33%
$1 \frac{1}{4}$	1.25	125%

Equivalents



Work with an adult or older sibling.

Partner One: Say a fraction with halves, quarters, fifths or multiples of tenths or twenty fifths.

Partner Two: Say the equivalent decimal and percentage.

Try writing the fraction/decimal/percentage, or saying and writing the fraction/decimal/percentage

$$\frac{3}{20}$$

0.15

15%



One Decimal Place

- Match the equivalent fractions, decimals and percentages.

25%

$\frac{3}{10}$

0.3

$\frac{1}{4}$

$\frac{3}{5}$

$\frac{1}{2}$

$\frac{4}{25}$

0.2

60%

0.5

30%

16%

$\frac{1}{5}$

50%

0.25

0.16

20%

0.6

One Decimal Place

- Match the equivalent fractions, decimals and percentages.

25%

$\frac{3}{10}$

0.3

$\frac{1}{4}$

$\frac{3}{5}$

$\frac{1}{2}$

$\frac{4}{25}$

0.2

60%

0.5

30%

16%

$\frac{1}{5}$

50%

0.25

0.16

20%

0.6

Pizza

- Aleena and Haris each have a pizza.
- Aleena eats 60% of her pizza.
- Haris eats $\frac{3}{4}$ of his pizza.
- Who eats more pizza?
- How do you know?



Pizza

Aleena eats 60% of her pizza.
Haris eats $\frac{3}{4}$ of his pizza.



Haris eats $\frac{3}{4} = 75\%$ of his pizza.
 $75\% > 60\%$, so Haris eats more.



- Create your own word problem comparing two different amounts using fractions and percentages.

Order

- Order each row smallest to largest:

$$\frac{1}{2} \text{ of } 64$$

$$30\% \text{ of } 90$$

$$50 \times 0.6$$

$$75\% \text{ of } 80$$

$$140 \times 0.4$$

$$\frac{2}{3} \text{ of } 96$$

$$68 \times 0.25$$

$$\frac{3}{4} \text{ of } 24$$

$$\frac{3}{20} \text{ of } 100$$

$$\frac{4}{5} \text{ of } 60$$

$$0.1 \times 500$$

$$60\% \text{ of } 90$$

Order

- Order each row smallest to largest:

$$30\% \text{ of } 90 = \mathbf{27}$$

$$50 \times 0.6 = \mathbf{30}$$

$$\frac{1}{2} \text{ of } 64 = \mathbf{32}$$

$$140 \times 0.4 = \mathbf{56}$$

$$75\% \text{ of } 80 = \mathbf{60}$$

$$\frac{2}{3} \text{ of } 96 = \mathbf{64}$$

$$\frac{3}{20} \text{ of } 100 = \mathbf{15}$$

$$68 \times 0.25 = \mathbf{17}$$

$$\frac{3}{4} \text{ of } 24 = \mathbf{18}$$

$$\frac{4}{5} \text{ of } 60 = \mathbf{48}$$

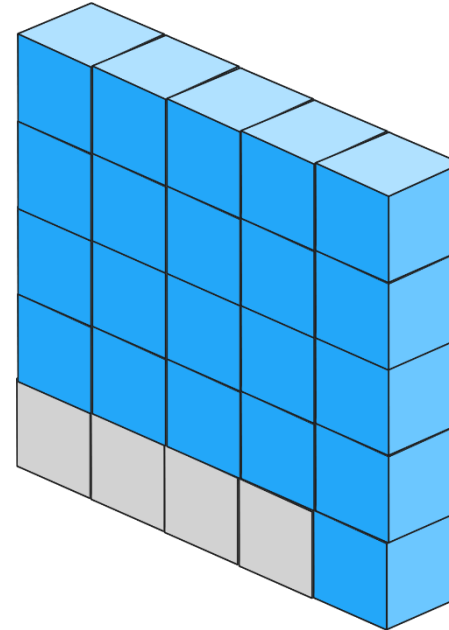
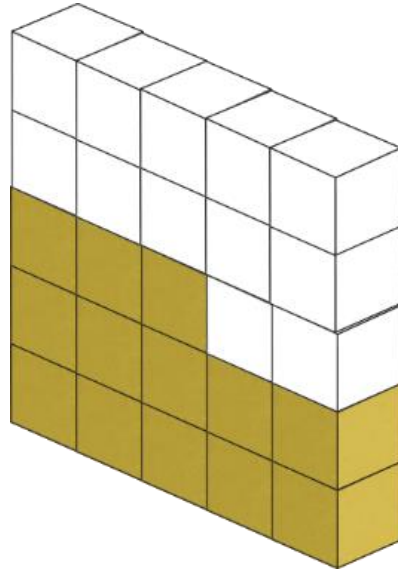
$$0.1 \times 500 = \mathbf{50}$$

$$60\% \text{ of } 90 = \mathbf{54}$$

Write some of your own fractions/percentages and decimals for a partner to order.

Visual Representation

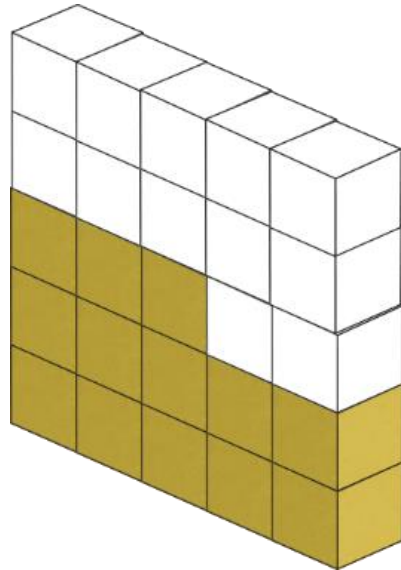
- Write the fraction, decimal and percentage represented by these shapes:



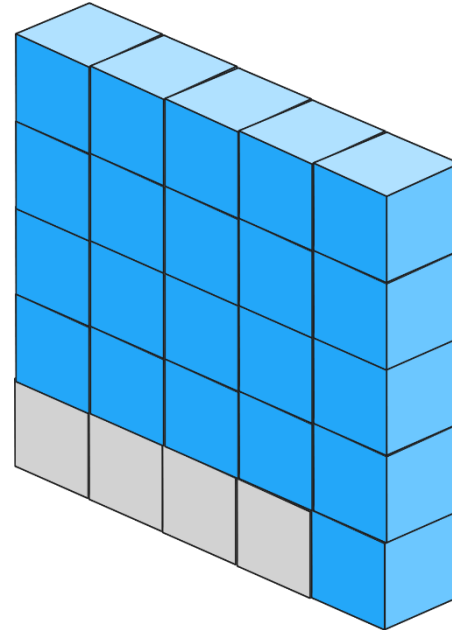
Draw or make using cubes some of your own representations for a partner to interpret.

Visual Representation

- Write the fraction, decimal and percentage represented by these shapes:



$$\frac{13}{25} = 0.52 = 52\%$$



$$\frac{21}{25} = 0.84 = 84\%$$

Draw or make using cubes some of your own representations for a partner to interpret.

Tasks

Complete –

- Worksheet.

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Worksheet

Tick the **two** numbers that are equivalent to $\frac{1}{4}$

Tick **two**.

0.25 ☐

0.75 ☐

$\frac{25}{100}$ ☐

0.5 ☐

$\frac{2}{5}$ ☐

A cat sleeps for **12 hours** each day.

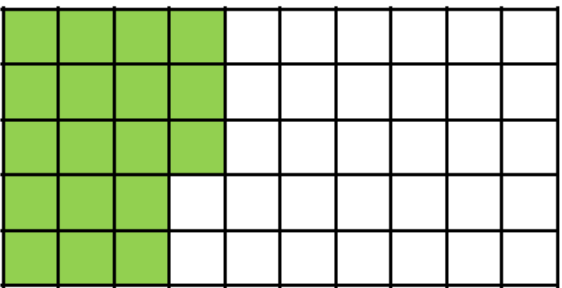
50% of its life is spent asleep.

Write the missing percentage.

A koala sleeps for **18 hours** each day.

%

of its life is spent asleep.



Amir thinks that 18% of the grid has been shaded.

Dora thinks that 36% of the grid has been shaded.

Who do you agree with?

Explain your reasoning.



Which month did Eva save the most money?

Estimate your answer using your knowledge of fractions, decimals and percentages.

Explain why you have chosen that month.

In January, Eva saves $\frac{3}{5}$ of her £20 pocket money.



In February, she saves 0.4 of her £10 pocket money.

In March, she saves 45% of her £40 pocket money.



Here are three symbols.

< > =

Write one symbol in each box to make the statements correct.

$\frac{7}{10}$ 0.07

$\frac{23}{1000}$ 0.23

Extra Challenge

Sam is reading two books: 'Olympic Stories' and 'Jack's Big Surprise'.

He has read $\frac{3}{4}$ of Olympic Stories.

He has read $\frac{3}{5}$ of Jack's Big Surprise.

He has 60 pages left to read of each book.

How many pages long is each book?

How many fractions can be made that are more than 0.5 and less than 0.8 using two of these digits?

2, 3, 4, 5

Now try with these
harder numbers.

How many fractions can be made that are more than 0.5 and less than 0.8 using the following numbers:

4, 5, 6, 8, 10, 12

Wednesday 6th May 2020

L.O. – To solve problems involving percentages of amounts.

Problems of the day.

Hit space bar for answers but don't do it until you've tried!

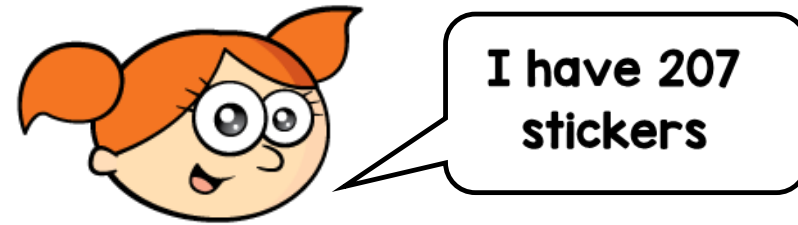
- 1** Sam has £29
He gets £28 more for his birthday.
He buys this cap and jumper with his money.



How much money does he have left?

- 2** One fifth of a number is 12
What is a half of the number?

3



Mo gives Alex some stickers.
Alex now has twice as many as Mo.
How many stickers did Mo give Alex?

Problems of the day.

Hit space bar for answers but don't do it until you've tried!

1 Sam has £29

He gets £28 more for his birthday.
He buys this cap and jumper with his money.



How much money does he have left?

Sam has £16.51 left.

2 One fifth of a number is 12

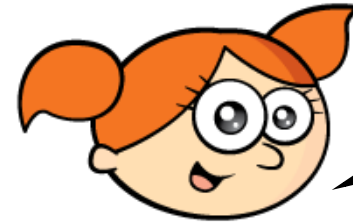
What is a half of the number?

$$12 \times 5 = 60$$

$$60 \div 2 = 30$$

Half of the number is 30

3



I have 207
stickers

I have 150
stickers



Mo gives Alex some stickers.

Alex now has twice as many as Mo.

How many stickers did Mo give
Alex?

$$207 + 150 = 357$$

$$357 \div 3 = 119$$

Mo gives Alex 119 stickers.

Match the equivalent fractions and percentages.

50%	$\frac{1}{100}$	25%	$\frac{1}{2}$	1%	$\frac{1}{10}$	10%	$\frac{1}{4}$
$\frac{1}{2}$		$\frac{1}{4}$		$\frac{1}{100}$		$\frac{1}{10}$	

What is the quickest way to find 50% of a number?

How can you use equivalent fractions to find 1%, 10% or 25% of a number?

Match the equivalent fractions and percentages.

50%

$\frac{1}{2}$

25%

$\frac{1}{4}$

1%

$\frac{1}{100}$

10%

$\frac{1}{10}$

What is the quickest way to find 50% of a number?

To find 50%, divide by 2.

How can you use equivalent fractions to find 1%, 10% or 25% of a number?

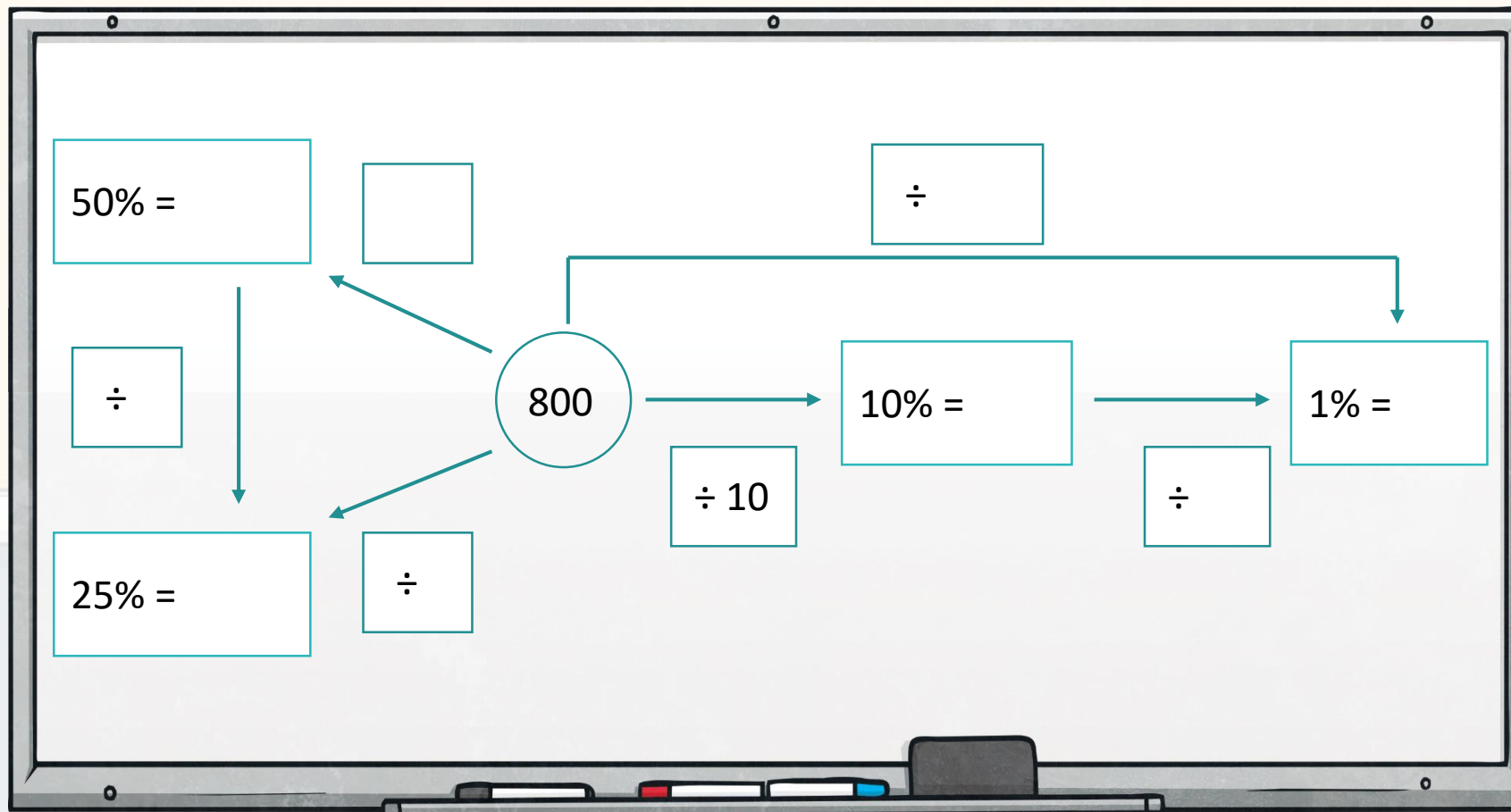
Divide by the denominator of the equivalent fraction.

To find 1%, divide by 100.

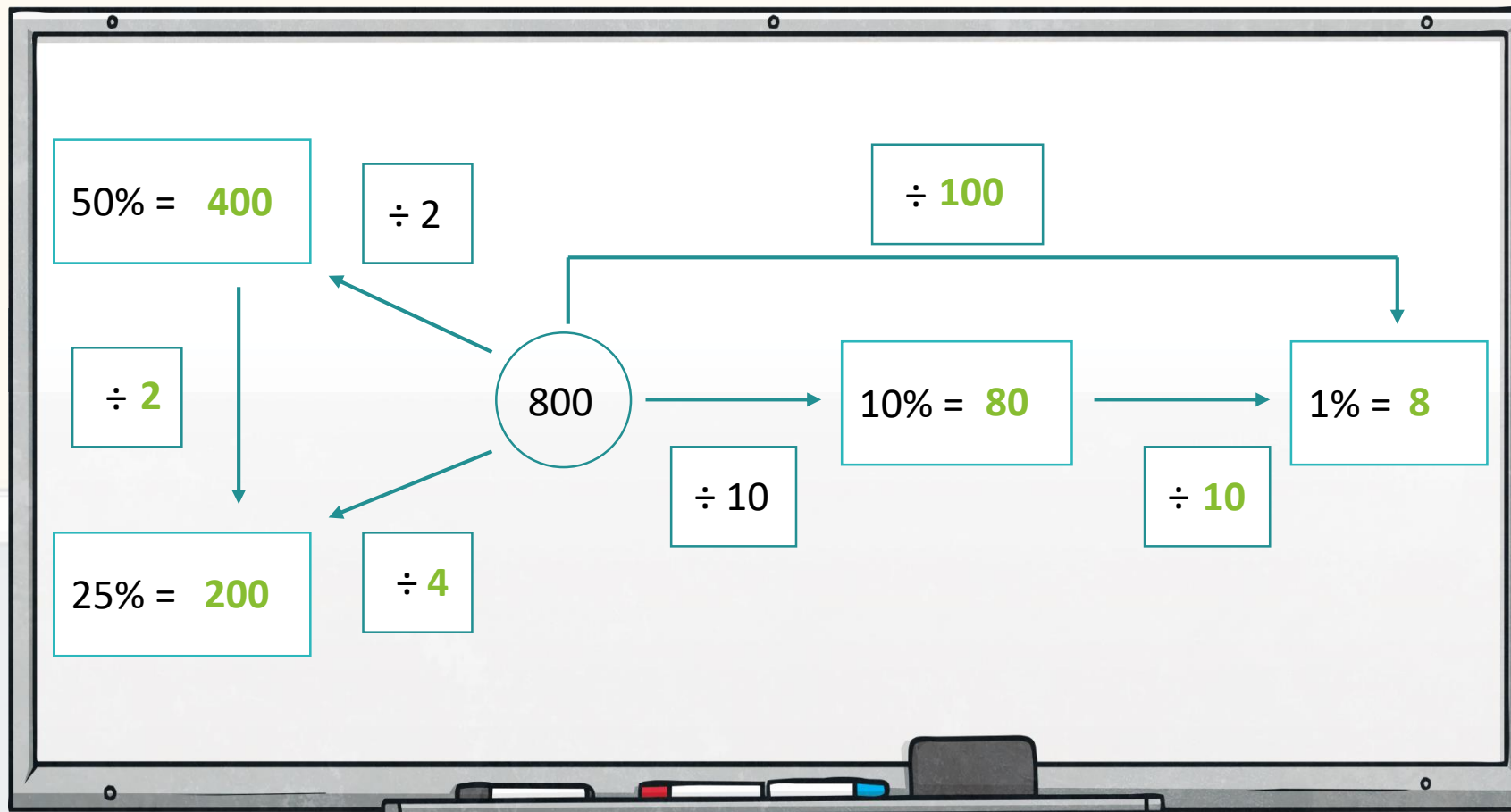
To find 10%, divide by 10.

To find 25%, divide by 4.

Complete this diagram to show the percentages of 800.

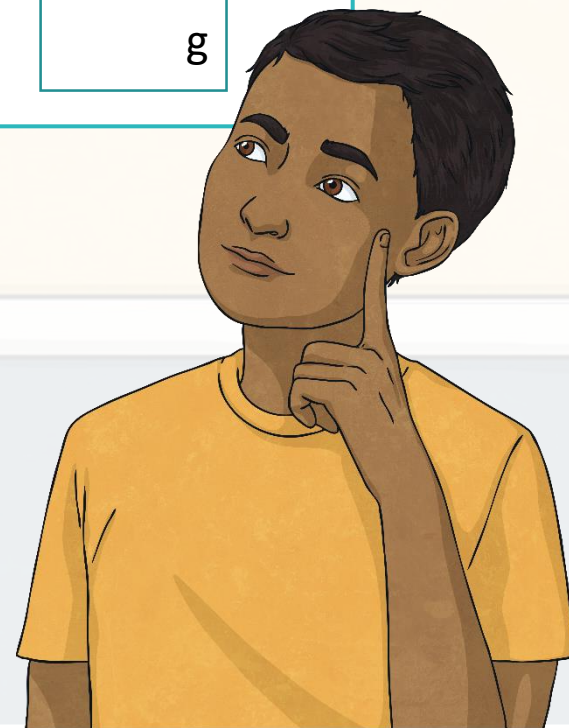


Complete this diagram to show the percentages of 800.



See if you can calculate these problems.

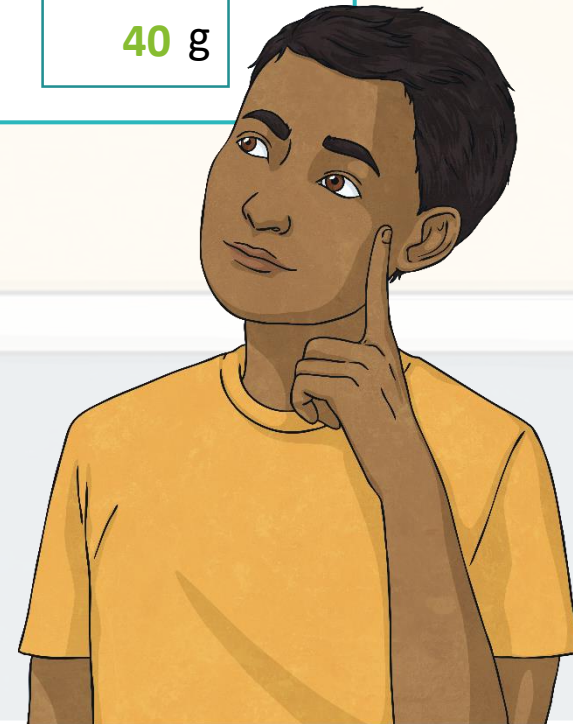
50% of £750 = <input type="text" value="£"/>	25% of 6.4km = <input type="text" value="m"/>
10% of 3m = <input type="text" value="cm"/>	1% of 4kg = <input type="text" value="g"/>



See if you can calculate these problems.

50% of £750 = £ 375	25% of 6.4km = 1600 m
10% of 3m = 30 cm	1% of 4kg = 40 g

Did you get caught out by this?
Remember to convert units to what is required!



True or False?

To find 25% of an amount, I can divide the amount by 2 and then divide it by 2 again.

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

10% of 240 = 1% of 2400

25% of 4680 < 50% of 2280



True or False?

To find 25% of an amount, I can divide the amount by 2 and then divide it by 2 again.

True.

$$25\% = \frac{1}{4}$$

To find $\frac{1}{4}$ of an amount, we divide by 4. We can also find $\frac{1}{4}$ by dividing by 2 and dividing by 2 again.

10% of 240 = 1% of 2400

True.

$$240 \div 10 = 24 \text{ is the same as } 2400 \div 100 = 24$$

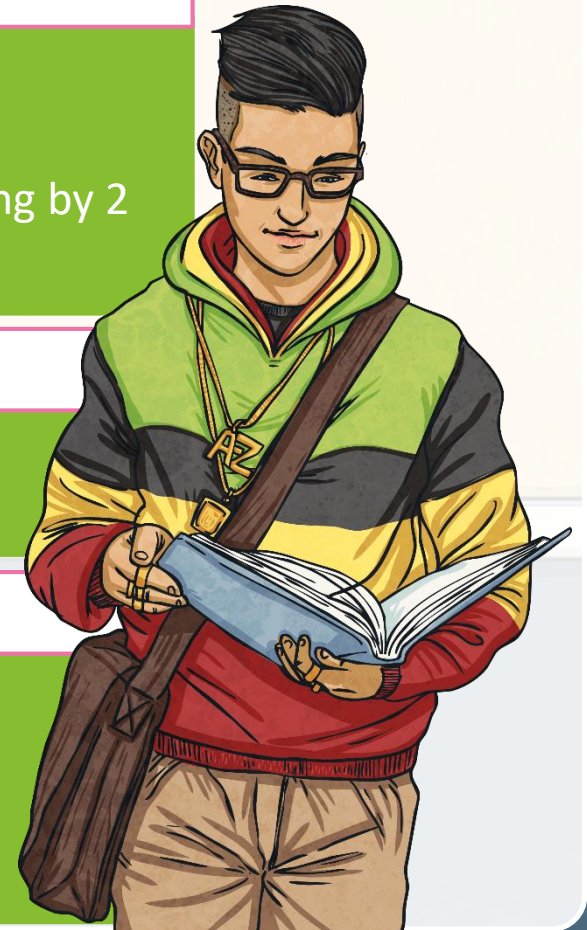
25% of 4680 < 50% of 2280

False.

$$25\% \text{ of } 4680 = 1170 \text{ and } 50\% \text{ of } 2280 = 1140$$

$$1170 > 1140$$

$$25\% \text{ of } 4680 > 50\% \text{ of } 2280$$



Tasks

Complete –

- Worksheet.

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Jack has £400

He spends **35%** of his money on a new bike.



How much does Jack spend on his new bike?

Calculate 55% of 640

Eva says to find 1% of a number, you divide by 100
Whitney says to find 1% of a number, you divide by 10 and then by 10 again.

Who do you agree with?
Explain your answer.

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?

Worksheet

20% of the children in a sports club play tennis.



25% of the children who play tennis **also** play rounders.



There are 8 children in the club who play **both** tennis and rounders.

How many children are there in the sports club **altogether**?

How many ways can you find 45% of 60?

Use similar strategies to find 60% of 45

What do you notice?

Does this always happen?
Can you find more examples?

Extra Challenge

32 is 40% of 80

24 is 60% of

12 is % of 30

is 80% of 70

All pairs of shoes are 25% cheaper in the sale.

The sale price for these shoes is £48.

How much did the shoes cost before the sale?

SALE PRICE

£48



A pair of trainers cost £32.

The shop had a sale.

Now the pair of trainers cost £24.

What is the percentage discount?

SALE PRICE

£24



Thursday 7th May 2020

L.O. – To solve problems involving unequal sharing.

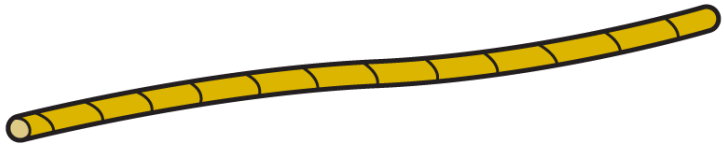
Problems of the day.

Hit space bar for answers but don't do it until you've tried!

- 1 Circle all the numbers equivalent to 0.25

0.4 $\frac{50}{100}$ $\frac{25}{100}$ $\frac{1}{4}$

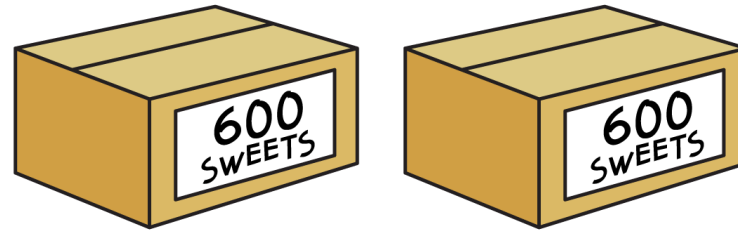
- 2 A rope measures 2.8 metres.



The rope is cut into 10 equal sized pieces.

What is the total length of 5 of these pieces?

- 3 Sweets come in boxes of 600
Danny has two boxes of sweets.



He packs the sweets into smaller bags.

There are 21 in each bag.



How many bags can Danny fill using all the sweets?

Problems of the day.

Hit space bar for answers but don't do it until you've tried!

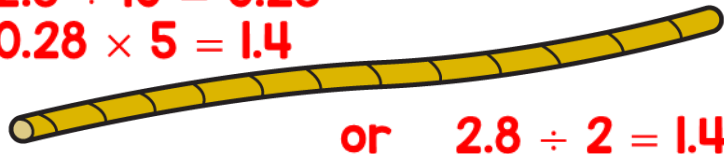
- 1 Circle all the numbers equivalent to 0.25

0.4 $\frac{50}{100}$ $\frac{25}{100}$ $\frac{1}{4}$

- 2 A rope measures 2.8 metres.

$$2.8 \div 10 = 0.28$$

$$0.28 \times 5 = 1.4$$

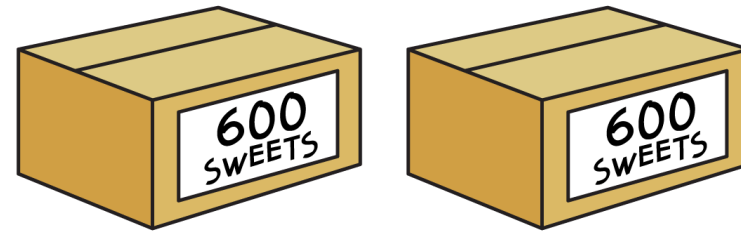


The rope is cut into 10 equal sized pieces.

What is the total length of 5 of these pieces?

The total length is 1.4 metres.

- 3 Sweets come in boxes of 600
Danny has two boxes of sweets.



$$600 \times 2 = 1,200$$

He packs the sweets into smaller bags.

There are 21 in each bag.



How many bags can Danny fill using all the sweets?

$$1,200 \div 21 = 57 \text{ r } 3$$

Danny can fill 57 bags.

Make 1 (Fractions)

- Write the fraction that can be added to each fraction to make 1 whole:

$\frac{2}{5}$		$\frac{2}{3}$		$\frac{1}{4}$	
$\frac{7}{10}$		$\frac{4}{5}$		$\frac{5}{6}$	
$\frac{1}{10}$		$\frac{3}{7}$		$\frac{11}{2}$	
$\frac{5}{12}$		$\frac{3}{8}$		$\frac{4}{15}$	
$\frac{7}{8}$		$\frac{11}{12}$		$\frac{2}{9}$	

Make 1 (Fractions)

- Write the fraction that can be added to each fraction to make 1:

$\frac{2}{5}$	$\frac{3}{5}$	$\frac{2}{3}$	$\frac{1}{3}$	$\frac{1}{4}$	$\frac{3}{4}$
$\frac{7}{10}$	$\frac{3}{10}$	$\frac{4}{5}$	$\frac{1}{5}$	$\frac{5}{6}$	$\frac{1}{6}$
$\frac{1}{10}$	$\frac{9}{10}$	$\frac{3}{7}$	$\frac{4}{7}$	$\frac{11}{2}$	$\frac{9}{20}$
$\frac{5}{12}$	$\frac{7}{12}$	$\frac{3}{8}$	$\frac{5}{8}$	$\frac{4}{15}$	$\frac{11}{15}$
$\frac{7}{8}$	$\frac{1}{8}$	$\frac{11}{12}$	$\frac{1}{12}$	$\frac{2}{9}$	$\frac{7}{9}$

Make 1 (Decimals)

- Write the decimal that can be added to each decimal to make 1:

0.8		0.5		0.7	
0.29		0.82		0.54	
0.76		0.37		0.09	
0.782		0.012		0.287	
0.501		0.481		0.755	

Make 1 (Decimals)

- Write the decimal that can be added to each decimal to make 1:

0.8	0.2	0.5	0.5	0.7	0.3
0.29	0.71	0.82	0.18	0.54	0.46
0.76	0.24	0.37	0.63	0.09	0.91
0.782	0.218	0.012	0.988	0.287	0.713
0.501	0.499	0.481	0.519	0.755	0.245

Make 100%

- Write the percentage that can be added to each percentage to make 100%.

30%		60%		10%	
25%		95%		55%	
91%		17%		29%	
46%		2%		69%	
88%		33%		11%	

Make 100%

- Write the percentage that can be added to each percentage to make 100%.

30%	70%	60%	40%	10%	90%
25%	75%	95%	5%	55%	45%
91%	9%	17%	83%	29%	71%
46%	54%	2%	98%	69%	31%
88%	12%	33%	67%	11%	89%

Books

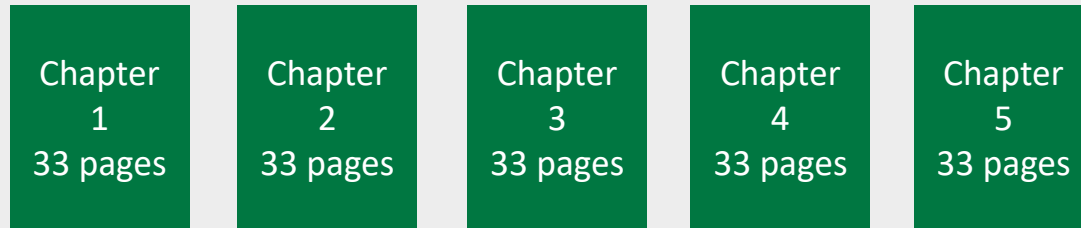
- A book has 5 chapters of equal length. The whole book has 165 pages.
- Use a drawing to show how many pages in each chapter.

How many pages in $\frac{2}{5}$ or $\frac{4}{5}$ of the book?

Isla has read 75 pages of a book. She has $\frac{2}{5}$ of the book left to read.
How many pages are left to read?

Books

- A book has 5 chapters of equal length. The whole book has 165 pages.
- Use a drawing to show how many pages in each chapter.



How many pages in $\frac{2}{5}$ or $\frac{4}{5}$ of the book?

$\frac{2}{5} = 66$ pages, $\frac{4}{5} = 132$ pages

Isla has read 75 pages of a book. She has $\frac{2}{5}$ of the book left to read.
How many pages are left to read?

50 pages left to read.

Write some of your own word problems about books for a partner to work out.

Boxes

Juice cartons are sold in boxes of 8.

The manufacturer decides to start selling the juice cartons in boxes of 5.

How many boxes of 5 juice cartons can be made from 10 boxes of 8 cartons?

Boxes

Juice cartons are sold in boxes of 8.

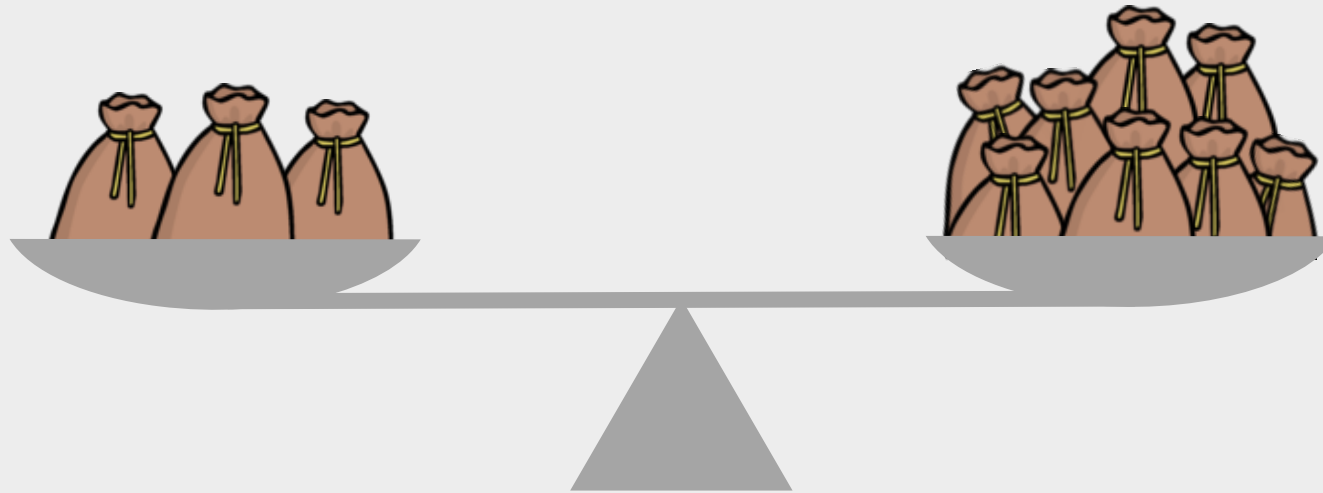
The manufacturer decides to start selling the juice cartons in boxes of 5.

How many boxes of 5 juice cartons can be made from 10 boxes of 8 cartons?

16 boxes of 5 cartons

Scales

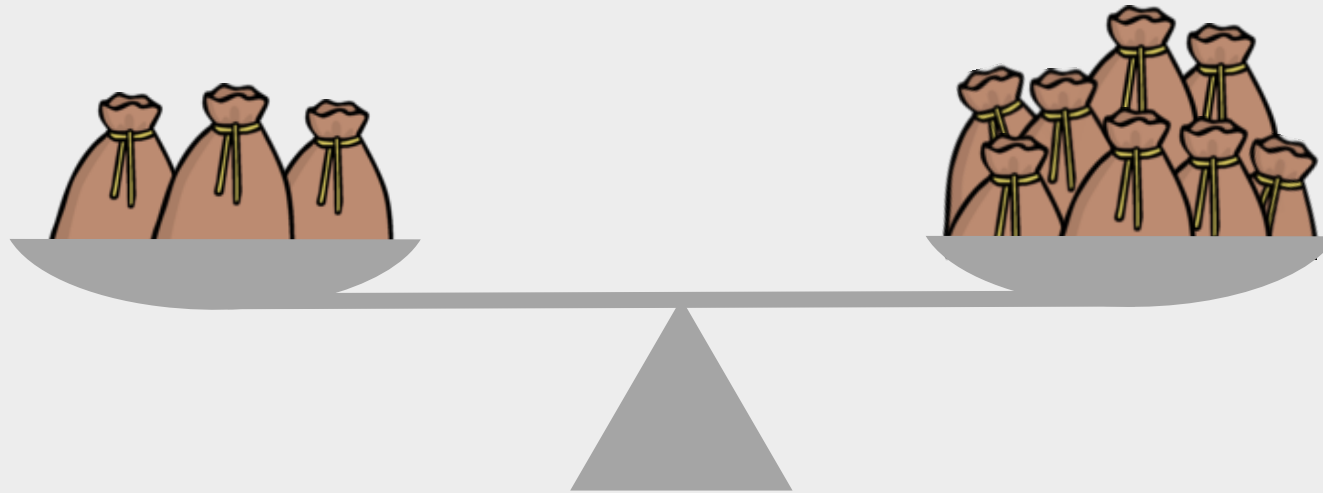
Here are a set of scales that balance. The bags on each side of the scales are of equal mass.



What could be the mass of the 2 different bags?

Scales

Here are a set of scales that balance. The bags on each side of the scales are of equal mass.



What could be the mass of the 2 different bags?

Many answers based on the ratio 8:3

3 x 8kg, 8 x 3kg; or 3 x 4kg, 8 x 1.5kg

Tasks

Complete –

- Worksheet.

Please complete the questions in the exercise books you were given. If you cannot print the worksheet then do not worry. Just show all your working out and write the answer under today's date in your books.

If you have any misunderstandings then please head to Education City or email the school on –

learning@wembleyprimary.brent.sch.uk

Worksheet

This recipe makes 10 flapjacks.

Flapjacks

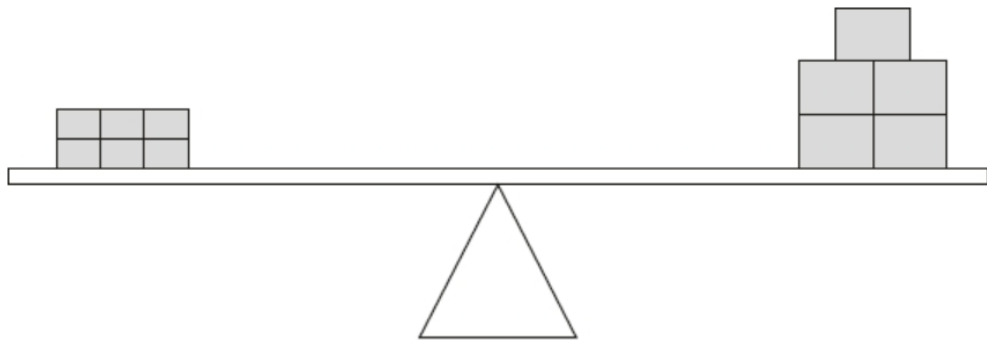
120 g butter
100 g brown sugar
4 tablespoons golden syrup
250 g oats
40 g sultanas

Amir has 180 g butter.

What is the largest number of flapjacks he can make?

How much of the other ingredients will he need?

6 small bricks have the same mass as 5 large bricks.



The mass of one small brick is 2.5 kg.

What is the mass of one large brick?

In a survey of children’s favourite fruit juices, these were the results.

Juice	Apple	Orange	Grape	Mango
Percentage of children	25%	14%	30%	31%

(a) **20 more** children chose grape than chose apple.

How many children took part in the survey?

A golf club has 200 members.

58% of the members are male.

50% of the female members are children.

- (a) How many male members are in the golf club?
- (b) How many female children are in the golf club?

In a class, 18 of the children are girls.

A quarter of the children in the class are boys.

Altogether, how many children are there in the class?

Extra Challenge

In week 1 there were twice as many girls as boys at athletics club.

Six more girls join athletics club in week 2. Now for every boy at athletics club there are three girls.

How many children go to athletics club in week 2?

In the first half, Zaynah Kamran scored 16 times. She scored with 4 shots for every shot that she missed.

In the second half, Zaynah scored with half of her shots.

Overall, Zaynah Kamran scored with 2 shots for every shot that she missed.

How many shots did Zaynah take in the second half?

Friday 8th May 2020

L.O. – To solve investigations from the week.

This is the opportunity to use the knowledge that you have learnt throughout the week to use in an investigation.

This is a great chance for you to challenge yourself and ask yourself questions to push your understanding further.

Problems of the day.

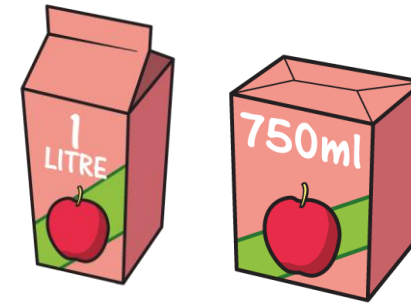
Hit space bar for answers but don't do it until you've tried!

1 On a bookcase

- $\frac{5}{8}$ of the books are fiction books.
- The rest are non-fiction.
- There are 72 non-fiction books.

How many books are fiction?

2 Amir has two cartons of apple juice.



He shares all the juice equally between these glasses.



How much apple juice does he pour into each glass?

Problems of the day.

Hit space bar for answers but don't do it until you've tried!

1 On a bookcase

- $\frac{5}{8}$ of the books are fiction books.
- The rest are non-fiction.
- There are 72 non-fiction books.

How many books are fiction?

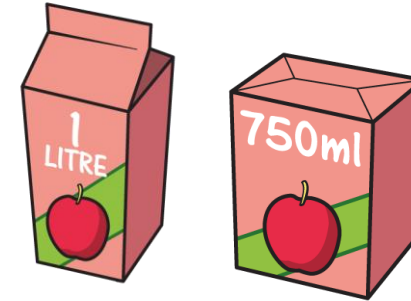
$$\text{Non-fiction} = \frac{3}{8}$$

$$72 \div 3 = 24$$

$$24 \times 5 = 120$$

120 books are fiction.

2 Amir has two cartons of apple juice.



He shares all the juice equally
between these glasses.

$$1,750 \div 5 = 350$$



How much apple juice does he pour
into each glass?

He pours 350 ml into each glass.

Tasks

Complete –

- Worksheet.

Please complete the questions in the exercise books you were given. If you cannot print the worksheet then do not worry. Just show all your working out and write the answer under today's date in your books.

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Worksheet

Chocolate

This challenge is about chocolate. You have to imagine (if necessary!) that everyone involved in this challenge enjoys chocolate and wants to have as much as possible.

There's a room in your school that has three tables in it with plenty of space for chairs to go round. Table 1 has one block of chocolate on it, table 2 has two blocks of chocolate on it and, guess what, table 3 has three blocks of chocolate on it.

Now ... outside the room is a class of children. Thirty of them all lined up ready to go in and eat the chocolate. These children are allowed to come in one at a time and can enter when the person in front of them has sat down. When a child enters the room they ask themselves this question:

"If the chocolate on the table I sit at is to be shared out equally when I sit down, which would be the best table to sit at?"



Go ahead and find out how much each child receives as they go to the "best table for them". As you write, draw and suggest ideas, try to keep a note of the different ideas, even if you get rid of some along the way.

THEN when a number of you have done this, talk to each other about what you have done, for example:

- Compare different methods and say which you think was best.
- Explain why it was the best.
- If you were to do another similar challenge, how would you go about it?

However, the chocolate is not shared out until all the children are in the room so as each one enters they have to ask themselves the same question.

It is fairly easy for the first few children to decide where to sit, but the question gets harder to answer, e.g.

It maybe that when child 9 comes into the room they see:

- 2 people at table 1
- 3 people at table 2
- 3 people at table 3

So, child 9 might think:

"If I go to:

- table 1 there will be 3 people altogether, so one block of chocolate would be shared among three and I'll get one third.*
- table 2 there will be 4 people altogether, so two blocks of chocolate would be shared among four and I'll get one half.*
- table 3, there will be 4 people altogether, so three blocks of chocolate would be shared among four and I'll get three quarters.*

Three quarters is the biggest share, so I'll go to table 3."