

Day 1

Fab four!

1.) 7% of $68 =$

2.) $12, 3, 6, 12, 10, 9, 11$

What is the range?

What is the mean?

3.) $31.75 \times 7 =$

4.) convert to improper

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

Day 2

Fab four!

1.) 9% of 800 =

2.) 12, 3, 6, 12, 10, 9, 11

What is the mode?

What is the median?

3.) $22.05 \times 6 =$

4.) convert to improper

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

Day 3

Fab four!

1.) 72% of $68 =$

2.) $15, 1, 6, 15, 10, 9, 11$

What is the range?

What is the mean?

3.) $75.75 \times 7 =$

4.) convert to improper

$2 \frac{1}{12} =$

Day 4

Fab four!

1.) 7% of $68 =$

2.) $12, 3, 6, 12, 10, 9, 11$

What is the range?

What is the mean?

3.) $31.75 \times 7 =$

4.) convert to improper

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

LO: I can solve mixed problems.

Fractions methods

adding & subtracting fractions...

multiplying fractions

dividing fractions

converting fractions

LO: I can solve mixed problems.

Mild

1.) $85 \times 7 =$

7.) $6.33 \times 10 =$

2.) $319 \times 3 =$

8.) $8^2 =$

3.) $9.2 + 2.4 =$

9.) $400 \times 300 =$

4.) $3 \times 6 \times 2 =$

10.) 1275 divided by 15 =

5.) $\frac{3}{7} + \frac{2}{7} =$


11.) 30% of 2600

6.) 480 divided by 8 =

12.) $1.05 \times 5 =$

LO: I can solve mixed problems.

Spicy



Test it!

Fractions 3

* Equals, adds, subtracts, multiplies and divides fractions with different denominators and mixed numbers in simplest form and recognises equivalent fractions.

* Multiplies and divides by 10, 100 & 1000 up to 3 decimal places.


* Calculates decimal fraction equivalents for a simple fraction.

1) Emily makes 250grams of a snack mixture. 15% of the weight is raisins, 25% is banana chips and the rest is peanuts. How many grams of peanuts does she use?

2) What is bigger?
75% of 420 or one fifth of 890?


3) Milan says:
"To find 10% you divide by 10. To find 20% you divide by 20."
Is he correct? Explain.

4) $\frac{1}{3}$ of this square is shaded.




The same square is used in the diagrams below.

What fraction of this diagram is shaded?



What fraction of this diagram is shaded?



Hot

LO: I can solve mixed problems.

Q1. The number of people going to a cinema increased from £2 000 in 1988 to £1 800 in 1992.
Calculate the percentage increase in the number of people from 1988 to 1992.


Q2. Place these numbers in order of size, starting with the **smallest**.

$\frac{1}{2}$ 0.9 0.091 0.109

Place these fractions in order of size, starting with the **smallest**.

$\frac{1}{2}$ $\frac{1}{3}$ $\frac{5}{12}$ $\frac{5}{6}$

3) Linda buys a pair of trainers.



She says,
"I bought this pair of trainers when there was 20% off the normal price.
I paid £28 for them."
What was the normal price of the trainers?

4) Jack buys a packet of crisps. Last month he bought 10 of the packet money and this month he bought 12 of the packet money, so altogether he saved 20% of his packet money.
Does this mean he should agree with Jack?
Explain your decision.

LO: I can solve mixed problems.

Hot

LO: I can solve mixed problems.

Q1. The number of people going to a cinema increased from 52 000 in 1988 to 71 500 in 1992.

Calculate the percentage increase in the number of people from 1988 to 1992.

Q2. Place these numbers in order of size, starting with the **smallest**.

0.19 0.9 0.091 0.109

Place these fractions in order of size, starting with the **smallest**.

$\frac{1}{2}$ $\frac{1}{3}$ $\frac{5}{12}$ $\frac{5}{6}$

3.) Linda buys a pair of trainers.



She says,

'I bought this pair of trainers when there was 20% off the normal price. I paid £18 for them.'

What was the **normal** price of the trainers?

4.)

Jakob says to Peter, 'Last month I saved 0.5 of my pocket money and this month I saved $\frac{1}{2}$ of my pocket money, so altogether I've saved 40% of my pocket money.'

Do you think Peter should agree with Jakob?

Explain your decision.

LO: I can solve mixed problems.

Negative numbers-

What is ten degrees higher than -2 ?

What is 15 degrees colder than 5 ?

LO: I can solve mixed problems.

Multiples are....

Prime numbers are...

Square numbers are....

LO: I can solve mixed problems.

Multiples are....

Prime numbers are...

Square numbers are....

A Prime Number is:

a whole number that **cannot** be made by multiplying other whole numbers

(if we **can** make it by multiplying other whole numbers it is a **Composite Number**)

Here we see it in action:

Prime: 2 3 5 7 etc...

Composite: 4 6 8 9

2 is Prime, 3 is Prime, 4 is Composite (=2x2), 5 is Prime, and so on...

Definition of **Square Number** [more ...](#)

The number we get after multiplying an integer (not a fraction) by itself.

Example: $4 \times 4 = 16$, so 16 is a square number.

Here are the first few square numbers:

- 0 (=0x0)
- 1 (=1x1)
- 4 (=2x2)
- 9 (=3x3)
- 16 (=4x4)
- 25 (=5x5)

LO: I can solve mixed problems.

Mild

LO: can I solve mixed problems?

1.) The graph shows the temperature in a greenhouse.

Time	Temperature (°C)
1 pm	10
2 pm	20
3 pm	25
4 pm	35

3) When was the temperature 30°C?

4) Use the graph to find the difference between the temperature at 2pm and the temperature at 4pm.

5) What were the highest and lowest temperatures recorded? What's the difference between them?

2.)

3.)

Circle the largest number that is not a multiple of 2 or 3 or 5

71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

4.) Here is a diagram for sorting numbers.

Write these three numbers in the correct boxes.

You may not need to use all of the boxes.

9 17 20

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graph LR
    Start[Start] --> Prime[prime]
    Start --> NotPrime[not prime]
    Prime --> PrimeEven[even]
    Prime --> PrimeNotEven[not even]
    NotPrime --> NotPrimeEven[even]
    NotPrime --> NotPrimeNotEven[not even]
    
```

5.) Circle the two prime numbers.

29 39 49 59 69

6.) Lara chooses a square number.

She rounds it to the nearest hundred.

Her answer is 200

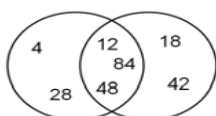
Write all the possible square numbers Lara could have chosen.

LO: I can solve mixed problems.

Spicy

LO: I can solve mixed problems on number.

- 1.) Work out the headings for this Venn diagram



Add in one more number to each section.

- 2.) Stefi says

The only prime number between 30 and 40 is 37

Is he correct? Prove it.

- 3.) Clare's age is a multiple of 7 and 3 less than a multiple of 8. How old is Clare? Is this the only possibility?

- 4.) Which number is the odd one out?

12, 30, 54, 42, 32, 48

Explain why.

LO: I can solve mixed problems with units of measure and coordinates.

Rules for coordinates- Along the corridor and up the stairs!

Length conversions-

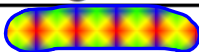
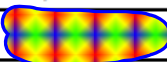
1cm = mm

1m = cm

km = m

LO: I can solve mixed problems with units of measure and coordinates.

mass conversions

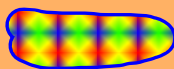
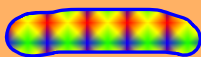
Kilograms	Grams
	500
1	1,000
1 ½	
2	2,500

What do you notice?!?!

Can you complete the table?

LO: I can solve mixed problems with units of measure and coordinates.

mass conversions




Kilograms	Grams
$\frac{1}{2}$	500
1	1,000
$1 \frac{1}{2}$	1,500
2	2,500

What do you notice?!?!

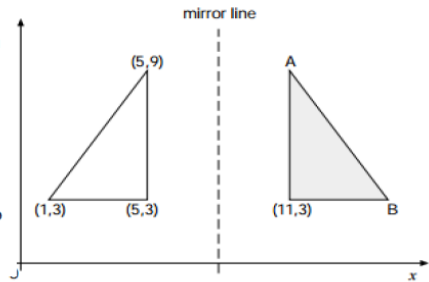
2kg= 2000g not 2500g!

LO: I can solve mixed problems with units of measure and coordinates.

Check it! 

The shaded triangle is a reflection of the white triangle in the mirror line.

What are the coordinates of A and B?



If the shaded triangle was then reflected in the x axis, what would its new co-ordinates be?

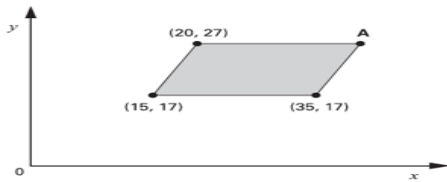
Position & Direction
* Draws and translates simple shapes on the coordinate plane and reflects them in the axes.

LO: I can solve mixed problems.

Spicy

LQ: Can I solve mixed problems?

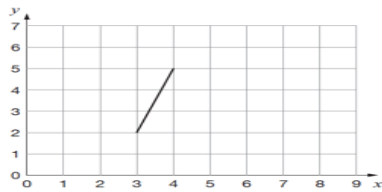
1.) The shaded shape is a parallelogram.



Write the coordinates of point A.

Here is one side of a square drawn on a coordinate grid.

2.)



The square has a vertex at (6, 1).

Draw the other three sides of the square on the grid.
Use a ruler.

3.) **Fill in the gaps using units of length.**

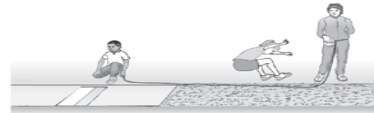
The first one is done for you.

There are 10 in one

There are 100 in one

There are 1000 in one

4.)



Seb made a jump of two and a half metres.
Kirsty's jump was 15 centimetres longer.

How long was Kirsty's Jump?

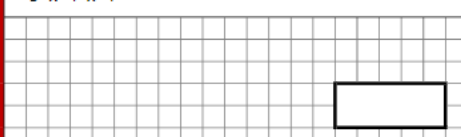
5.)

Write these lengths in order, starting with the shortest.

shortest

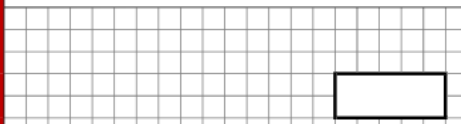
LO: I can solve mixed arithmetic problems.

1 $9 \times 4 \times 4 =$



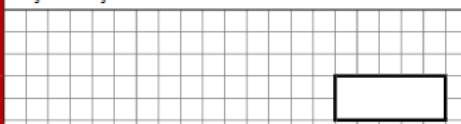
1 mark

2 $739 + 1,276 =$



1 mark

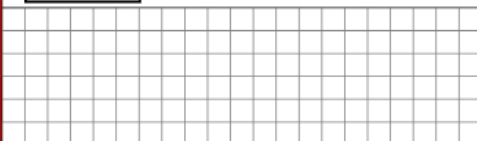
3 $\frac{1}{5} + \frac{1}{5} =$

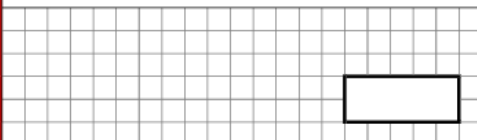


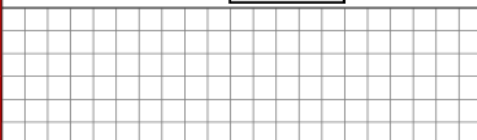
1 mark

4 $404 \div \boxed{} = 0$

LO: I can solve mixed arithmetic problems.

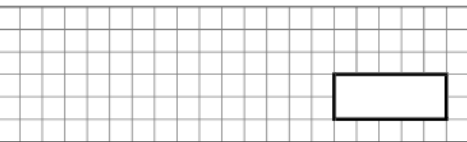
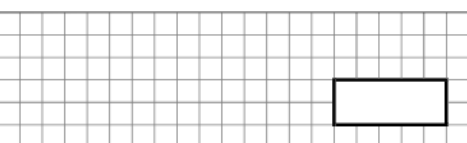
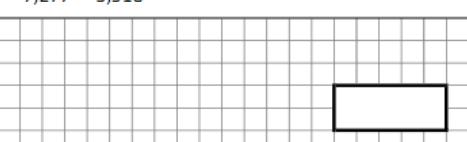
5	<input type="text"/> = $887 - 356$	1 mark
		

6	$7.5 + 2.29 =$	1 mark
		

7	$708,900 = 700,000 +$ <input type="text"/> $+ 900$	1 mark
		

8	$8 \times 62 =$	
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LO: I can solve mixed arithmetic problems.

9	$115 \div 5 =$		1 mark
10	$94 \times 4 =$		1 mark
11	$7,277 - 3,518 =$		1 mark
12	$1\frac{4}{5} - \frac{3}{5} =$		

LO: I can solve mixed arithmetic problems.

13 - 300 = 2,680

1 mark

14 $6 + 10^2 =$

1 mark

15 $\frac{4}{5} \times \frac{5}{6} =$

1 mark

16 $13 \overline{)715}$

LO: I can solve mixed arithmetic problems.

17	$40 \times 70 =$	1 mark
	<input type="text"/>	

18	$721 \div 7 =$	1 mark
	<input type="text"/>	

19	$0.06 \div 10 =$	1 mark
	<input type="text"/>	

20	$27.76 \times 100 =$	
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