

# Week 1: Maths homework due in 9<sup>th</sup> January 2017

## BODMAS

### BRONZE

Solve the following sums.

1.  $(5 \times 2) + 4 =$
2.  $20 - (3 \times 4) =$
3.  $(5 \times 8) - 7 =$
4.  $26 + (6 \times 4)$
5.  $(4 \times 7) + 12 =$



### SILVER

Solve the following sums.

1.  $(5 \times 2) + (4 \times 7) =$
2.  $(2 \times 9) - (3 \times 4) =$
3.  $(5 \times 8) - (7 \times 0) =$
4.  $(4 \times 9) + (6 \times 4)$
5.  $(3 \times 7) + (5 \times 5) =$



### GOLD

Use the following 3 numbers to create a calculation with the answers below:	
2      6      7	
28	
40	
1.5	
26	
10	
Can you make some other answers?	

Use the following 3 numbers to create a calculation with the answers below:	
3      4      9	
7	
33	
39	
24	
63	
Can you make some other answers?	

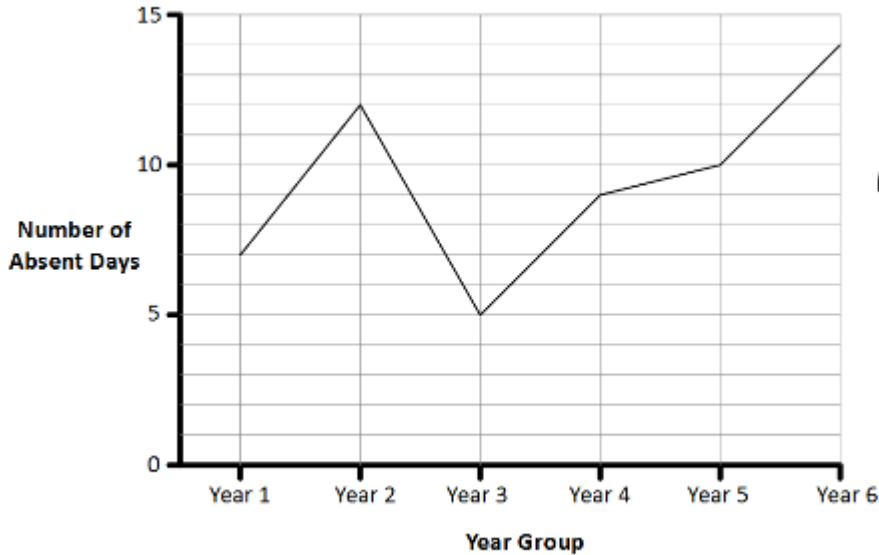
Use the following 3 numbers to create a calculation with the answers below:	
2      5      8	
24	
20	
26	
50	
2	
Can you make some other answers?	

## Week 2: Maths homework due in 16<sup>th</sup> January 2017

### Interpreting graphs.

#### BRONZE

This line graph shows the number of absent-days each year group had over a half-term:



Now answer the following questions about this line graph:

How many absent days were there in Year 2? \_\_\_\_\_

Which year group had the best attendance over the six-weeks? \_\_\_\_\_

How many more absent-days did Year 6 have than Year 1? \_\_\_\_\_

Which year group had exactly nine absent-days? \_\_\_\_\_

Which year groups had less than ten absent-days?  
\_\_\_\_\_

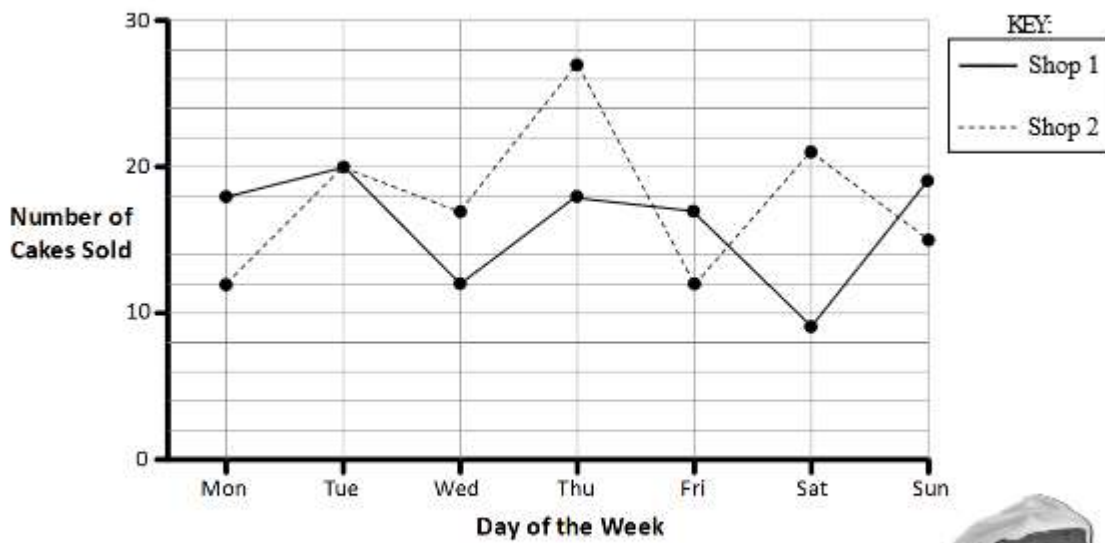
Which year group had the worst attendance over the six-weeks? \_\_\_\_\_

How many fewer absent-days did Year 3 have than Year 2? \_\_\_\_\_

How many absent days were there in total over the six-weeks?

# SILVER

This line graph shows the number of cakes sold by two rival cafés over a week:



Now answer the following questions about this line graph:

How many cakes did Shop 1 sell on Saturday? \_\_\_\_\_



How many cakes did Shop 2 sell on Wednesday? \_\_\_\_\_

On which days did Shop 2 sell less than 15 cakes? \_\_\_\_\_

On which day did Shop 1 and Shop 2 sell the same number of cakes? \_\_\_\_\_

On which days did Shop 1 sell more than 18 cakes? \_\_\_\_\_

On how many days did Shop 1 sell more cakes than Shop 2? \_\_\_\_\_

How many more cakes did Shop 2 sell on Saturday than Shop 1? \_\_\_\_\_

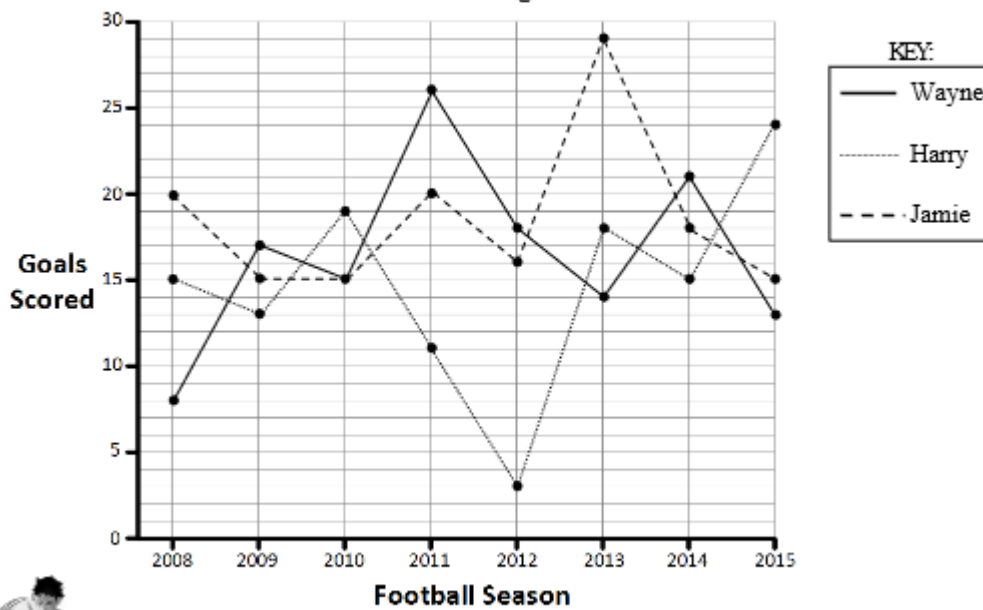
How many cakes did both shops sell on Friday in total? \_\_\_\_\_

If cakes cost £2 each, how much money did Shop 1 make on Monday? \_\_\_\_\_

On which two days did Shop 1 sell the same number of cakes? \_\_\_\_\_

By comparing the two lines, which shop do you think sold the most cakes? \_\_\_\_\_

This line graph shows the number of goals three footballers have scored in the last eight football seasons:



Now answer the following questions about this line graph:



How many goals did Wayne score in the 2012 season? \_\_\_\_\_

In which season did Jamie score 18 goals? \_\_\_\_\_

How many times did Harry score more than 15 goals in a season? \_\_\_\_\_

How many fewer goals did Wayne score than Jamie in the 2013 season? \_\_\_\_\_

In which season do you think Harry had a lot of injuries? \_\_\_\_\_

In which season did Wayne and Jamie score the same number of goals? \_\_\_\_\_

In how many seasons was Wayne the top scorer out of the three footballers? \_\_\_\_\_

In which season did Wayne score exactly six more goals than Harry? \_\_\_\_\_

By comparing the lines, which footballer do you think has scored the least goals over the eight seasons? \_\_\_\_\_

## Week 3: Maths homework due in 23<sup>rd</sup> January 2017

### Tables and timetables.

#### BRONZE

This table shows the journeys a cab driver had one evening:

Journey Number	Start Time	End Time	Number of Passengers	Distance (km)	Fare
1	6:15pm	6:35pm	2	10	£13.00
2	6:55pm	7:20pm	1	8	£9.00
3	7:30pm	8:25pm	3	14	£18.00
4	8:30pm	9:10pm	4	12	£16.00
5	9:25pm	9:40pm	1	3	£5.50
6	9:55pm	10:30pm	3	11	£14.50



Now answer the following questions about this table:

What was the fare for journey 5? \_\_\_\_\_

How many passengers got into the cab at half-past seven? \_\_\_\_\_

How many minutes did the 8 km journey take? \_\_\_\_\_

How many passengers did the cab driver have in total? \_\_\_\_\_

The passengers on journey 3 split the fare *equally*. How much did each person pay? \_\_\_\_\_

How long did the driver have to wait after journey 1 for his next fare? \_\_\_\_\_

How many passengers made journeys of more than 10 km? \_\_\_\_\_

How far did the cab driver travel with his passengers in total? \_\_\_\_\_

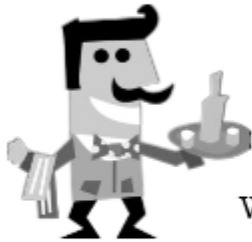
Which of the cab driver's journeys took the greatest amount of time? \_\_\_\_\_

Why do you think there was a 15-minute gap  
between ending journey 4 and starting journey 5?

# SILVER

This table shows the 'tables' a waiter served in a restaurant one evening:

Table Number	Customers	Arrived	Left	Bill	Tip
5	3	6:30pm	7:50pm	£90	£10
9	4	6:15pm	7:10pm	£128	£15
4	6	6:35pm	7:50pm	£150	£12
11	2	7:20pm	8:25pm	£38	£5



Now answer the following questions about this table:

How much did Table 9's bill come to? \_\_\_\_\_

What time did Table 4 arrive at the restaurant? \_\_\_\_\_

How long were Table 9 in the restaurant for? \_\_\_\_\_

How many customers did the waiter serve in total? \_\_\_\_\_

If the customers on Table 11 split the bill equally, how much did each person pay? \_\_\_\_\_

How much did the waiter get in tips in total? \_\_\_\_\_

Which table was in the restaurant for the longest time? \_\_\_\_\_

Which table left less than 10% of the bill as a tip? \_\_\_\_\_

How many customers was the waiter still serving at 7:30pm? \_\_\_\_\_

If all the customers split their respective bills equally,  
which table spent the most money per person?

This table shows some of the flights leaving Heathrow Airport in London one day:

Flight	Destination	Departure Time	Arrival Time	First Class Passengers	Business Class Passengers	Economy Class Passengers
1	Munich	08:25	10:12	45	57	111
2	Tokyo	09:40	21:20	132	47	189
3	Paris	10:59	12:02	22	38	147
4	Athens	11:15	14:59	66	23	205
5	Glasgow	12:20	13:57	44	63	89
6	New York	14:45	21:55	120	76	123

Now answer the following questions about this table:

How many First Class Passengers were on the flight to Athens? \_\_\_\_\_

At what time did the flight from Heathrow to Glasgow arrive? \_\_\_\_\_

How long was the flight from Heathrow to Athens? \_\_\_\_\_

Which city do you think is closest to London? \_\_\_\_\_

Explain why you think this: \_\_\_\_\_



The flight to New York was 30 minutes late arriving in New York.

What time should it have arrived? \_\_\_\_\_

Which flight had the fewest passengers on board? \_\_\_\_\_

How long was the flight from Heathrow to Tokyo? \_\_\_\_\_

How many first class passengers were in the air at 12:00? \_\_\_\_\_

The plane that flew to Tokyo had 400 seats. How many seats were unfilled?

How many passengers were in the air at 13:00?

## Week 4: Maths homework due in 30<sup>th</sup> January 2017

Number and place value.

### BRONZE

Write these numbers in figures

three thousand and eight.

seventy-two thousand and fifty

one hundred and four thousand, six hundred and two

Write these numbers in words

24,070

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407,601

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Write the number that is ten less than **forty thousand**

Underline the number that is closest in value to seven hundred thousand.

69,998

700,004

699,997

70,002



# SILVER

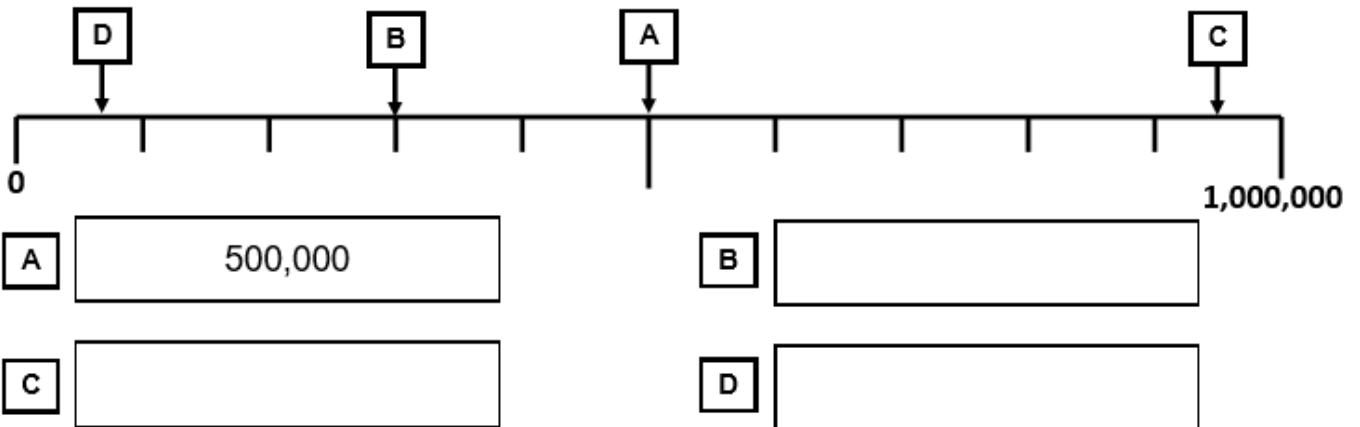
Write the value of the digit underlined. One has been done for you.

420,085

730,279

902,413

Estimate the value of the numbers on the number line. The first one has been done for you.



- A
- B
- C
- D
- E

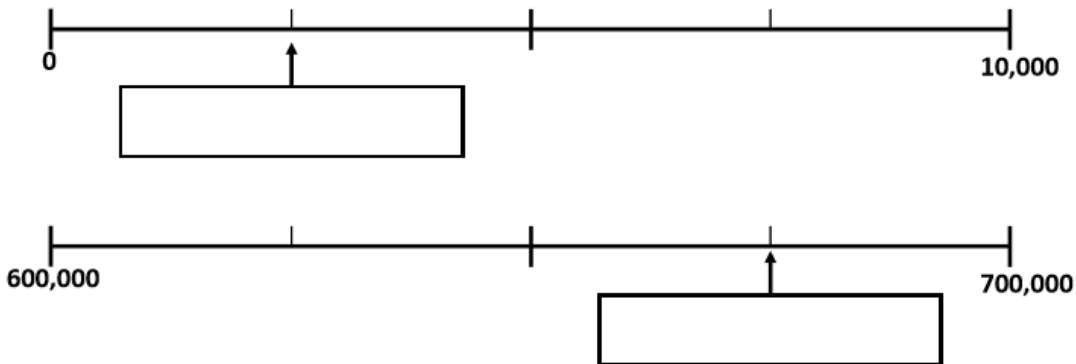
Put these numbers in order starting with the **smallest**.

One has been done for you.

\_\_\_\_\_

## GOLD

Write the correct number in each box.



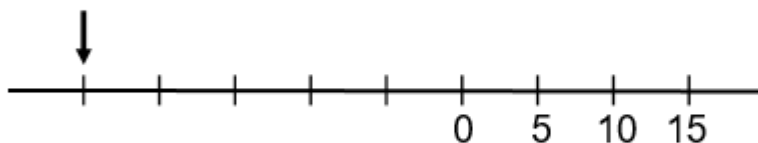
Write the missing numbers in these sequences

17, 12, 7, 2,

38, 28, 18, 8,

-385, -285, -185, -85,

Here is part of a number line.



Which number is being pointed to by the arrow?

Draw an arrow on the number line to show the position of -11

## Week 5: Maths homework due in 6<sup>th</sup> February 2017

### BRONZE

Problem	+	-	×	÷	Answer =
1) I have read <b>21</b> pages of the <b>100</b> pages in my book. <b>How many</b> pages do I have <b>left</b> before I complete the book?		/			$100 - 21 =$ $\begin{array}{r} 100 \\ - 21 \\ \hline 79 \end{array}$
2) Callum bought 2 apples at 25p each and a drink for 39p. How much did he spend altogether?					
3) There are 9 shelves of tins. 6 of the shelves hold 5 tins. 3 of the shelves hold 3 tins. What is the total number of tins on the shelves?					
4) Lorcan bought a packet of 50 chocolates. He ate one fifth of them on Tuesday and shared the rest with his 9 friends. How many did each of his friends receive?					
5) Ellie started to read a book on Monday. On Tuesday she read 20 more pages than on Mon. She reached page 86. How many pages did Ellie read on Monday?					
6) Laura saw a top costing £11.98 and a pair of trousers costing £19.99. How much did she spend on the clothes altogether?					

# SILVER

Problem	+	-	x	--
1) I have read <u>21</u> pages of the <u>100</u> pages in my book. <u>How many</u> pages do I have <u>left</u> before I complete the book?		/		
2) Callum bought 2 apples at 25p. How much did he spend altogether?				
3) A shelf holds 24 tins. The shelf below holds double to amount. How many tins does this shelf hold?				
4) Lorcan bought a packet of 45 chocolates. He ate 15 on Tuesday and the rest on Wednesday. How many were left on Wednesday?				
5) Ellie had a bag of sweets containing 45 sweets. She shared them equally amongst her 5 friends. How many sweets did each friend get?				
6) Laura saw a top costing £4.50 and a pair of trousers costing £10.00. How much did she spend on the clothes altogether?				

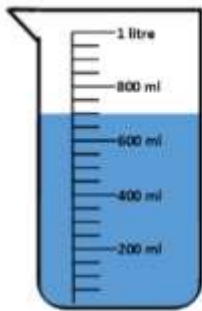
## GOLD

Problem	+	-	×	--
1) I have read <b>21</b> pages of the <b>100</b> pages in my book. <b>How many</b> pages do I have <b>left</b> before I complete the book?		/		
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# Week 6: Maths homework due in 13<sup>th</sup> February 2017

## Measurement

### BRONZE



Molly needs 1 litre of water.

How much more water does she need to add to this jug?

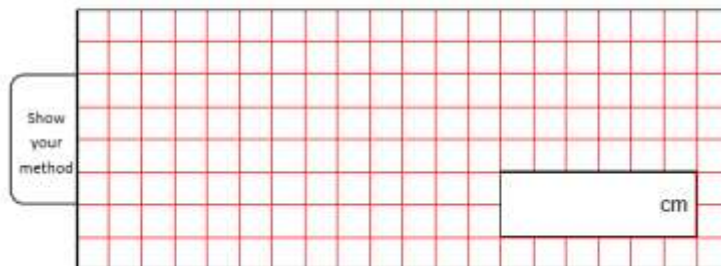
Sophia and Riley both threw a javelin.

Sophia threw it 608 centimetres.

Riley threw it 5.72 metres.



How much further did Sophia throw the javelin than Riley?



### SILVER

Four identical boxes have the same mass as a 1kg weight.



What is the mass of one box?

Convert these measurements.

$$402 \text{ cm} = \boxed{\phantom{000}} \text{ m}$$

$$1.5 \text{ km} = \boxed{\phantom{000}} \text{ m}$$

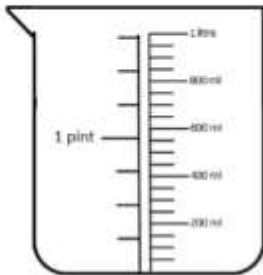
$$83 \text{ mm} = \boxed{\phantom{000}} \text{ cm}$$

$$6.2 \text{ km} = \boxed{\phantom{000}} \text{ m}$$

$$2.05 \text{ litres} = \boxed{\phantom{000}} \text{ ml}$$

This measuring jug has two scales.

One scale shows litres and one scale shows pints.



Use the jug to convert between pints and litres.

$$1 \text{ pint} \text{ is approximately } \boxed{\phantom{000}} \text{ ml}$$

$$\text{half a pint} \text{ is approximately } \boxed{\phantom{000}} \text{ ml}$$

$$700 \text{ ml} \text{ is approximately } \boxed{\phantom{000}} \text{ pints}$$

## GOLD

A bottle holds 2 litres of juice.



How many **250ml** glasses can be filled from the bottle?

Convert these measurements.

$$65 \text{ mm} = \text{ } \text{ cm}$$

$$1.072 \text{ kg} = \text{ } \text{ g}$$

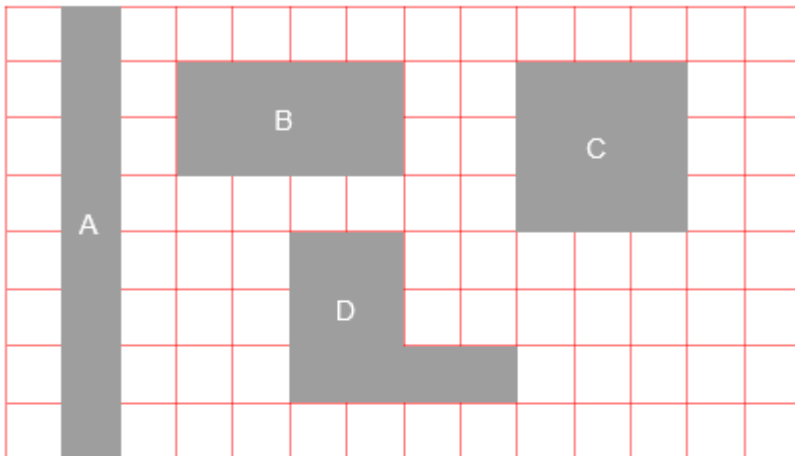
$$5 \text{ minutes} = \text{ } \text{ seconds}$$

$$407 \text{ cm} = \text{ } \text{ m}$$

$$2.05 \text{ litres} = \text{ } \text{ ml}$$

$$4 \text{ years} = \text{ } \text{ months}$$

These shapes are drawn on a 1 cm square grid.



Write the letters of the **three** shapes have the same area.

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Write the letters of the **two** shapes have the same perimeter.

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