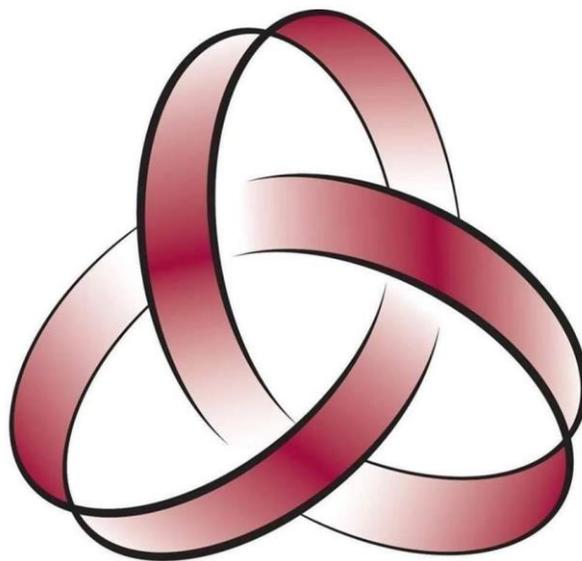


Year 6

Mathematics Department

Transition Booklet



DEAN TRUST **Wigan**

Getting to know us:

Here at Dean Trust Wigan there are 8 Maths Teachers and we would like to you get to know a little bit about us before you start!

The Maths teachers are:

Miss Hogg Age: 30 Height: 163cm

Miss Speakman Age: 28 Height: 166cm

Miss Sinclair Age: 28 Height: 165cm

Mrs Howard Age: 48 Height: 157cm

Mr Foster Age: 28 Height: 175cm

Miss Hymers Age: 24 Height: 175cm

Mr Cain Age: 21 Height: 171cm

Mr Williams Age: 22 Height: 178cm

Now, let's do a bit of Maths with that information:

- a) What is the total height of Miss Hogg, Mr Cain and Mr Williams?
- b) What is the difference in height between Miss Hymers and Mrs Howard?
- c) What is the sum of all the female teachers ages?
- d) What do you get if you multiply Mr Foster's age by Miss Sinclair's age?
- e) Write down 3 teachers who have a mean age of 26

We'd like to get to know you ...

We would like to learn 5 small things about you so that we can get to know you a little bit better before September!

In the centre of the handprint below we would like you to write your name (first name and initial of last name e.g. John S) and your primary school.

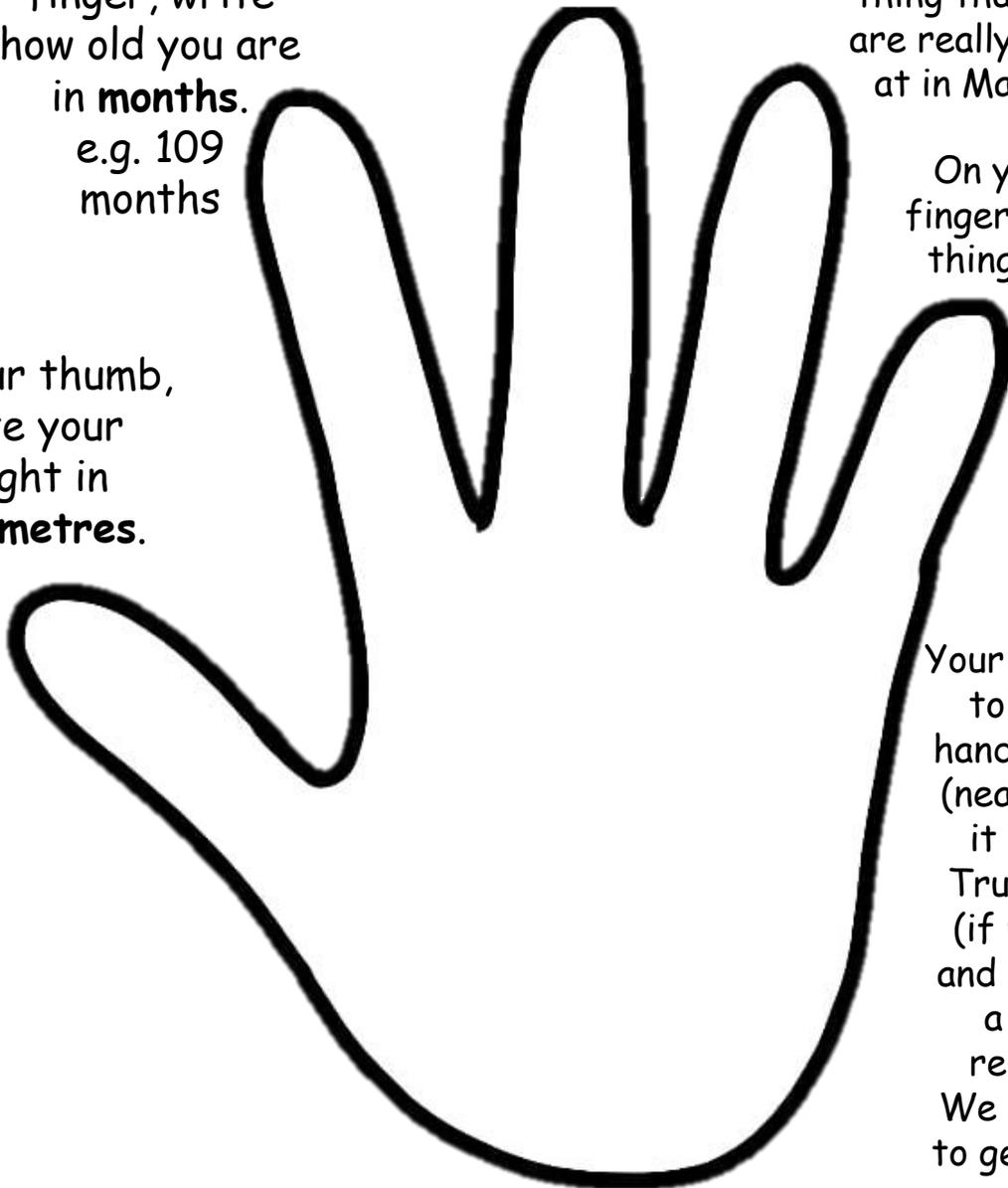
On your first finger, write how old you are in **months**.
e.g. 109 months

On your middle finger, write the **total** number of people and pets that live in your house.

On your next finger, write one thing that you are really **good** at in Maths.

On your little finger, write one thing that you would like to **improve** on in Maths.

On your thumb, write your height in **centimetres**.



Your last job is to cut the hand print out (neatly), take it to Dean Trust Wigan (if possible) and leave it in a box on reception! We can't wait to get to know you all! 😊

Now for some Maths Puzzles!

Let's start with a quick Sudoku:

Easy:

The rules of the game are simple: each of the nine blocks has to contain all the numbers 1-9 within its squares. Each number can only appear once in a row, column or box.

The difficulty lies in that each vertical nine-square column, or horizontal nine-square line across, within the larger square, must also contain the numbers 1-9, without repetition or omission.

This puzzle has just one correct solution.

		7				9		8
	3		1	7				4
					6			
6	9	8	7	4		3		
		3		1		4		
		1		3	9	7	6	2
			4					
9				5	1		4	
4		5				1		

Hard:

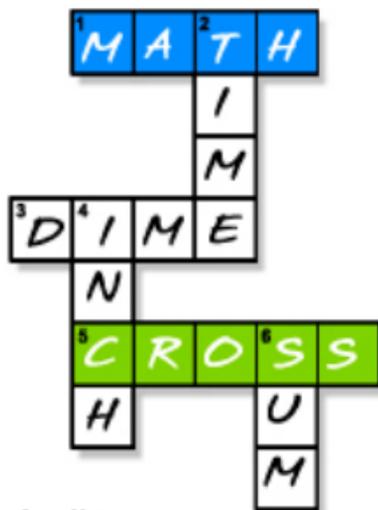
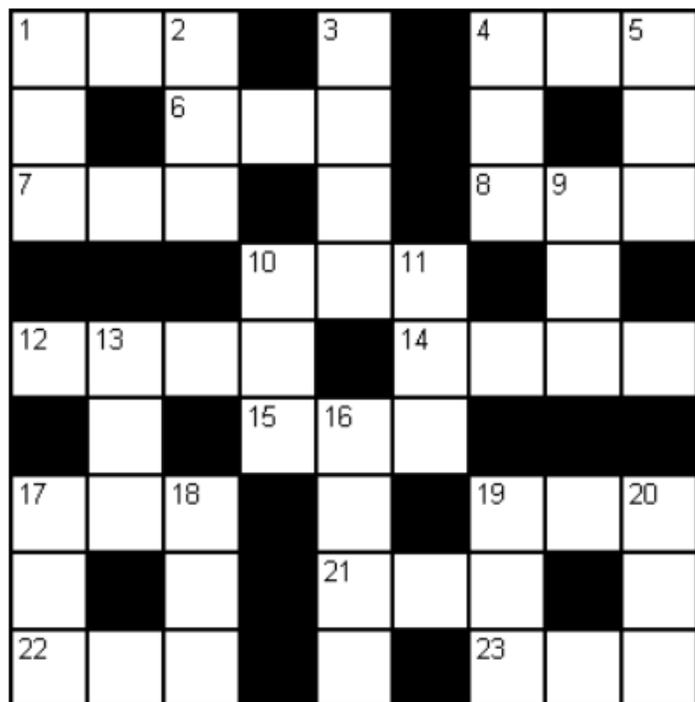
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This puzzle has just one correct solution.

		8			7			
5						7		1
9	2		1				3	6
			8	7	2			5
		9				3		
1			9	5	3			
3	7				9		4	8
2		6						9
			7			2		

Maths Crossword:



Puzzle #4

NAME: _____

DATE: _____

ACROSS

1. 111, 222, 333, ____, 555...
4. $67 + 85 + 29 =$
6. $(25 \times 6) \times 4 =$
7. 25, 50, 75, 100, ____, 150...
8. $164 \times 4 =$
10. $(250 \times 2) - 25 =$
12. $750 \times 5 =$
14. 6 Across + 8 Across =
15. $444 + 179 + 204 =$
17. $211 - 79 =$
19. 100, 105, 110, 115, 120, ____...
21. 250, 252, 255, 259, 264, ____...
22. $407 - 257 =$
23. $1599 - 700 =$

DOWN

1. $471 - 0 =$
2. $(93 \times 5) + 0 =$
3. 1000, ____, 1014, 1021, 1028...
4. $200 - 4 =$
5. $29 \times 4 =$
9. 490, 495, 500, 505, 510, ____...
10. $102 + 204 + 102 =$
11. $(107 + 226) + 184 =$
13. $252 + 531 =$
16. 2000, 2010, ____, 2030...
17. $(10 \times 10) + 11 =$
18. 7 Across + 19 Across =
19. $27 \times 4 =$
20. $(428 + 517) - 426 =$

Let's try some algebra puzzles!

Solving these puzzles can help you to understand algebra problems in High School!
Find the value of the pictures and the missing totals in each grid.

Example

9				19
+				
+				
=	27		21	

= 9 = =

				25
				28
		18		

= = =

			11
			36
26			

= = =

				30
				24
18				

= = =

Challenge!

			12
	25	6	

= = =

				0
				-1
		2		

= = =

Next, let's look at some shapes!

1) Which of the following shapes can be cut into four pieces by a single straight cut?

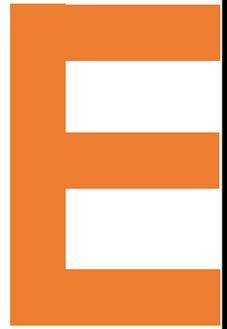
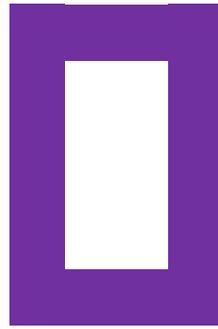
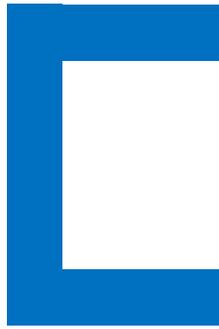
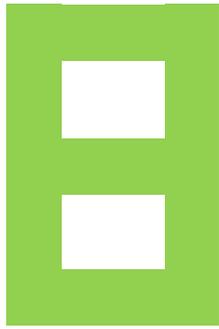
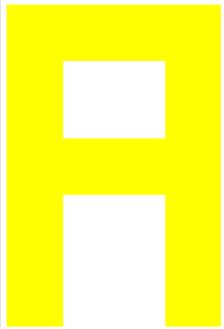
A

B

C

D

E



2) I fold a square exactly in half and then in half again. Which of the following could not be the resulting shape?

A

B

C

D

E

