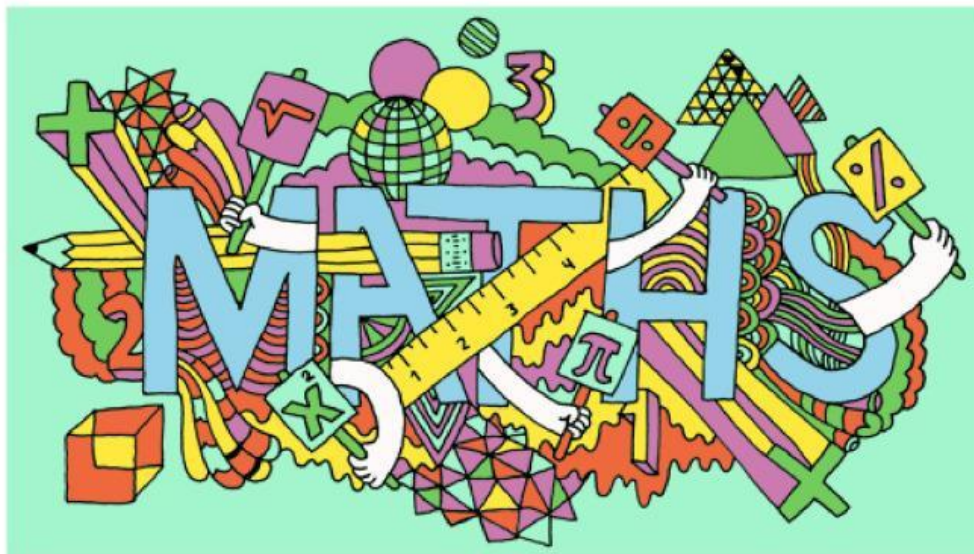# Maths Department

Pre-test Practice Mk3

Practice from the Primary Maths Challenge

Name:_____

Question 1

What is twelve thousand plus twelve hundred plus twelve?

12 121	13 212	121 212	132 012	1 212 012

Question 2

What is 12 345 679 x 9 ?

111 111 111	222 222 222	333 333 333	444 444 444	555 555 555

Question 3

Which of these equals one?

$1^2 + 1^2$	$1^2 - 1^2$	$2^2 - 1^2$	$3^2 - 2^2$	$2^2 \div 2^2$

Question 4

Which is the biggest?

0^5	1^4	2^3	3^2	4^1

Question 5

What is $4000 \div \frac{1}{2}$?

80	200	800	2000	8000

Question 6

How many of these calculations equal 1?

$$\frac{1}{2} + \frac{1}{2} \qquad \frac{1}{2} - \frac{1}{2} \qquad \frac{1}{2} \times \frac{1}{2} \qquad \frac{1}{2} \div \frac{1}{2}$$

0	1	2	3	4

Question 7

I was given a 1500 piece jigsaw puzzle of Albert Einstein. Half the pieces are missing and half of the rest are damaged. How many good pieces are there?

0	350	375	500	750

Question 8

Afsal eats half his cake. He then gives a quarter of what is left to a friend. What fraction of the original cake is left?

3/4	3/8	5/8	1/2	7/8

Question 9

Which number is **NOT** a factor of 101 010?

2	3	5	7	11

Question 10

One of these numbers is NOT a factor of 2004. Which one?

2	3	4	5	6

Question 11

Which number is NOT a factor of 2005?

1	5	25	401	2005

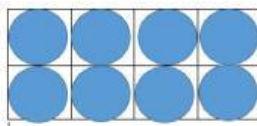## Question 12

Pills are sold in rectangular arrays such as this pack of eight pills. Which number of pills could only be sold as a long thin pack of pills?

12	13	14	15	16

Question 13

I am thinking of a number less than 40. It is an even number, a multiple of three and a multiple of five. What is the number?

9	15	20	30	35

Question 14

How many square numbers are there between 0 and 20?

1	2	3	4	5

Question 15

What do all these numbers have in common?

64   121   289   625

They are all odd numbers	They are all less than 625	They are all prime numbers	They are all divisible by 3	They are all square numbers

Question 16

12 children share some biscuits. They each take three biscuits and eat them. Which calculation will allow me to work out how many biscuits there were altogether?

12 + 3	12 x 3	12 - 3	12 ÷ 3	1 + 2 + 3

Question 17

The answer to 5 x 8 x 9 is the same as the answer to one of the questions below. Which one?

8 x 14	40 x 5	72 x 5	13 x 9	17 x 5

Question 18

Jasper's train leaves at 22 45 on November 4th. The journey takes 10 hours and 35 minutes. At what time does his train arrive on November 5th?
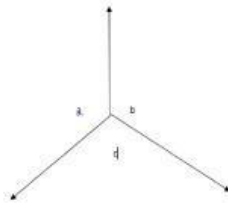
09 20	32 45	32 20	08 45	08 20

Question 19

The angles a, b and c are equal. What is the order of rotational symmetry of the diagram?

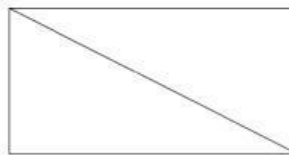| 0	4	3	2	1

Question 20

I fold a rectangle along its diagonal. What outline shape do I get?

square	pentagon	triangle	kite	hexagon