Year 6 maths quiz: memory mastermind!

Multiplication and division vocabulary

1) List all the **factors** of 36: _____

2) List all the **common factors** of 24 and 32: _____

3) List all the **prime numbers** under 20: _____

4) What's a **composite number**? _____

5) What are the **prime factors** of 12? _____

6) List the first 6 **multiples** of 9: _____, _____, _____, _____, _____ and _____

7) What is the **lowest common multiple** of 4 and 6? _____

8) List 3 different **square numbers**: _____, _____ and _____

9) What is 3^3? _____

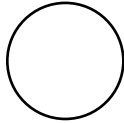## Fractions, decimals & percentages

Complete the conversion grid.

Fraction	Decimal	Percentage	Operation
½			
	0.2		
		1%	
			÷ 10
¾			÷ 4, x3
	0.25		
		5%	

Angles

Complete the grid.

How many degrees…	
in a full turn?	°
in a half turn?	°
in a right angle?	°
in an acute angle?	°
in an obtuse angle?	°
in a reflex angle?	°
on a straight line?	°
inside a triangle?	°
inside a quadrilateral?	°

Shape vocabulary

Draw a **horizontal** line.	Draw a **vertical** line.	Draw a pair of **parallel** lines.	Draw a pair of **perpendicular** lines.	Label this circle with its **circumference, radius** and **diameter.**

Roman numerals

Complete the grid.

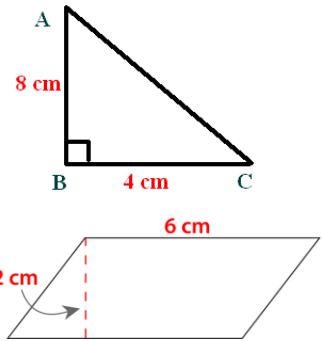| 1 =	I	=	X	100 =		1000 =	
	=	V	50 =		=	D	

2D shapes

What is a **polygon**? _____

What's the difference between a **regular** an **irregular** polygon?

Complete the grid.

Name	No. of sides
octagon	
	5
nonagon	
	7
quadrilateral	
	10
hexagon	

Below each shape, write its name (don't just write 'triangle' for the first 3 – be specific!)
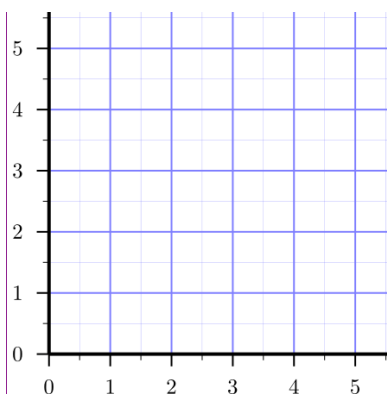
Measurement conversions

1) List all the months that have exactly 31 days: _____

2) List all the months that have exactly 30 days: _____

3) What's different about a leap year? _____

Complete the conversions.

1cm =	mm	1km =	m	1 litre =	ml
1m =	cm	1 mile =	km	1 kilogram =	g

Co-ordinates   Write an **X** on the co-ordinate (3,5).

The mean

What is the mean of the following numbers?

5, 7, 2, 8, 3

Mean = _____

3D shapes
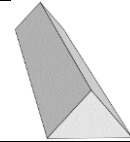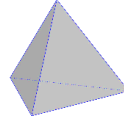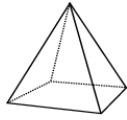
Complete the grid.			
What is this shape called?			
How many **faces** does it have?			
How many **edges** does it have?			
How many **vertices** does it have?			

What's the volume of this cuboid? _____

3 cm

7 cm

4 cm