

## 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.

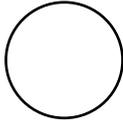
Fraction	Decimal	Percentage	Operation
$\frac{1}{2}$			
	0.2		
		1%	
			$\div 10$
$\frac{3}{4}$			$\div 4, \times 3$
	0.25		
		5%	

### 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 <b>horizontal</b> line.	Draw a <b>vertical</b> line.	Draw a pair of <b>parallel</b> lines.	Draw a pair of <b>perpendicular</b> lines.	Label this circle with its <b>circumference, radius and diameter.</b>
				

### Roman numerals

Complete the grid.

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

**2D shapes**

Complete the grid.

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

What is a **polygon**? \_\_\_\_\_

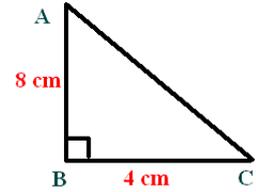
What's the difference between a **regular** and **irregular** polygon?

\_\_\_\_\_

\_\_\_\_\_

What is the area of this triangle?

Area = \_\_\_\_\_



What is the area of this parallelogram?

Area = \_\_\_\_\_



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

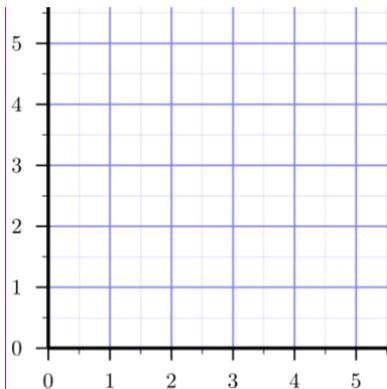

**Measurement conversions**

- List all the months that have exactly 31 days: \_\_\_\_\_
- List all the months that have exactly 30 days: \_\_\_\_\_
- 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).



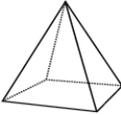
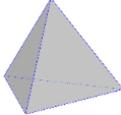
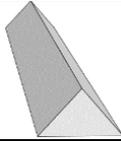
**The mean**

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 <b>faces</b> does it have?			
How many <b>edges</b> does it have?			
How many <b>vertices</b> does it have?			

What's the volume of this cuboid? \_\_\_\_\_

