

YEAR 6 HOMEWORK- MATHS FACTS

THESE ARE FACTS YOUR CHILD SHOULD KNOW OFF BY HEART – WITHOUT EVEN THINKING ABOUT THEM!

1. All tables facts up to 10x10

2. Number bonds to 100 e.g. if you say 23 they can answer 77 immediately

For decimals to 10 if you say 5.3 they answer 4.7

For decimals to 1 you say 0.67 they answer 0.33 and

To 1000 you say 650 they say 350

3. All doubles up to 20 e.g. double 9 = 18 double 13 = 26

4. All doubles of multiples of 5 under 200 e.g. double 15= 30, double 75 = 150,
double 55 =110

5. All halves under 50 e.g. half 34 = 17 half 16=8

6. All square numbers under 100

$$2 \times 2 = 4$$

$$6 \times 6 = 36$$

$$3 \times 3 = 9$$

$$7 \times 7 = 49$$

$$4 \times 4 = 16$$

$$8 \times 8 = 64$$

$$5 \times 5 = 25$$

$$9 \times 9 = 81$$

7. Facts about angles

A right angle is 90.

Angles in a triangle and on a straight line add up to 180.

Angles around a point add up to 360

8. Number of sides for polygons

| Name of polygon | Number of sides |
|-----------------|-----------------|
| triangle | 3 |
| quadrilateral | 4 |
| pentagon | 5 |
| Hexagon | 6 |
| heptagon | 7 |
| octagon | 8 |
| nonagon | 9 |
| decagon | 10 |

9. Fraction, decimal, percentage equivalents

$$25\% = 0.25 = \frac{1}{4}, 50\% = 0.5 = \frac{1}{2}, 75\% = 0.75 = \frac{3}{4}$$

$$0.1 = 10\% = \frac{1}{10}, 0.2 = 20\% = \frac{1}{5}, 0.3 = 30\% = \frac{3}{10}$$

$$0.4 = 40\% = \frac{2}{5}, 0.5 = 50\% = \frac{1}{2}$$

10. Metric units of measure

$$1\text{kg} = 1000\text{g}$$

$$1\text{litre} = 1000\text{ml}$$

$$\frac{1}{2}\text{ kg} = 500\text{g}$$

$$1\text{km} = 1000\text{m}$$

$$\frac{1}{4}\text{ kg} = 250\text{g}$$

$$1\text{m} = 100\text{cm}$$

$$\frac{3}{4}\text{ kg} = 750\text{g}$$

$$1\text{cm} = 10\text{mm}$$