

**I can convert between decimals, fractions and percentages.**

By the end of this half term, children should know the following facts. The aim is for them to recall these facts instantly.

$$\frac{1}{10} = 10\% = 0.1$$

$$\frac{1}{5} = 20\% = 0.2$$

$$\frac{1}{4} = 25\% = 0.25$$

$$\frac{2}{10} = 20\% = 0.2$$

$$\frac{2}{5} = 40\% = 0.4$$

$$\frac{2}{4} = 50\% = 0.50$$

$$\frac{3}{10} = 30\% = 0.3$$

$$\frac{3}{5} = 60\% = 0.6$$

$$\frac{3}{4} = 75\% = 0.75$$

$$\frac{4}{10} = 40\% = 0.4$$

$$\frac{4}{5} = 80\% = 0.8$$

$$\frac{4}{4} = 100\% = 1$$

$$\frac{5}{10} = 50\% = 0.5$$

$$\frac{5}{5} = 100\% = 1$$

$$\frac{7}{10} = 70\% = 0.7$$

$$\frac{9}{10} = 90\% = 0.9$$

$$\frac{10}{10} = 100\% = 1$$

**Remember**

$$\frac{1}{10} = \frac{10}{100} = 10\% = 0.1$$

$$\frac{3}{10} = \frac{30}{100} = 30\% = 0.3$$

**Tricky Related Facts**

$$\frac{1}{3} = \frac{33.33}{100} = 33.33\% = 0.33$$

(Rounded to 2 decimal places)

**Key Imagery:**

Prove using fraction / decimal wall, notice relationships between:

(A) halves, quarters and eights

(B) thirds and sixths

(C) fifths and tenths

1.00										1 (whole)										100%									
$\frac{1}{2}$					$\frac{1}{2}$					$\frac{1}{2}$					$\frac{1}{2}$					$\frac{1}{2}$									
0.5 (0.50)					50%					0.5 (0.50)					50%					50%									
$\frac{1}{3}$			0.33			33.3%			$\frac{1}{3}$			0.33			33.3%			$\frac{1}{3}$			0.33			33.3%					
$\frac{1}{4}$		0.25		25%		$\frac{1}{4}$		0.25		25%		$\frac{1}{4}$		0.25		25%		$\frac{1}{4}$		0.25		25%		$\frac{1}{4}$		0.25		25%	
$\frac{1}{5}$		0.20		20%		$\frac{1}{5}$		0.20		20%		$\frac{1}{5}$		0.20		20%		$\frac{1}{5}$		0.20		20%		$\frac{1}{5}$		0.20		20%	
$\frac{1}{6}$		0.167		16.7%		$\frac{1}{6}$		0.167		16.7%		$\frac{1}{6}$		0.167		16.7%		$\frac{1}{6}$		0.167		16.7%		$\frac{1}{6}$		0.167		16.7%	
$\frac{1}{8}$		0.125		12.5%		$\frac{1}{8}$		0.125		12.5%		$\frac{1}{8}$		0.125		12.5%		$\frac{1}{8}$		0.125		12.5%		$\frac{1}{8}$		0.125		12.5%	
$\frac{1}{10}$	0.1	10%	$\frac{1}{10}$	0.1	10%	$\frac{1}{10}$	0.1	10%	$\frac{1}{10}$	0.1	10%	$\frac{1}{10}$	0.1	10%	$\frac{1}{10}$	0.1	10%	$\frac{1}{10}$	0.1	10%	$\frac{1}{10}$	0.1	10%	$\frac{1}{10}$	0.1	10%	$\frac{1}{10}$	0.1	10%

**Top Tips**

The secret to success is practising **little** and **often**. Use time wisely. You don't need to practise them all at once: perhaps you could have a fact of the day. If you would like more ideas, please speak to your child's teacher.