



# Key Instant Recall Facts

## Year 6 - Spring 1

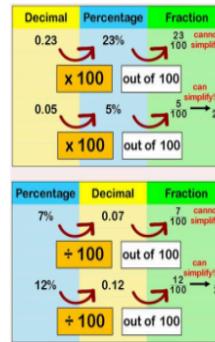
### Key Vocabulary

Fractions  
Decimals  
Percentages  
Tenths  
Hundredths

I aspire to convert between fractions, decimals and percentages.

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

Fractions	Decimals	Diagram	Out of 100	Percentages
1/10	0.1		10/100	10%
2/10	0.2		20/100	20%
3/10	0.3		30/100	30%
4/10	0.4		40/100	40%
5/10	0.5		50/100	50%



$$\begin{array}{ll} \frac{1}{2} = 0.5 & \frac{1}{100} = 0.01 \\ \frac{1}{4} = 0.25 & \frac{7}{100} = 0.07 \\ \frac{3}{4} = 0.75 & \frac{21}{100} = 0.21 \\ \frac{1}{10} = 0.1 & \frac{75}{100} = 0.75 \\ \frac{1}{5} = 0.2 & \frac{99}{100} = 0.99 \\ \frac{3}{5} = 0.6 & \end{array}$$

### Key Questions

How many tenths is 0.8?  
How many hundredths is 0.23?  
Can you write 0.75 as a fraction?  
Can you write  $\frac{1}{4}$  as a decimal?

### Your Home learning this half term...

Challenge 1: 	<b>Maths Invaders.</b> Follow the QR code and select 'convert fractions to decimals' or 'fractions to percentages'. Shoot the spaceship with the correct answer and dodge the incoming fire. A fun game to practise a wide range of key mathematical skills. <a href="https://mathsframe.co.uk/en/resources/resource/289/KS2-Maths-Invaders">https://mathsframe.co.uk/en/resources/resource/289/KS2-Maths-Invaders</a>
Challenge 2:	Draw (or use a real chocolate bar) with ten or twenty equal squares. Shade different parts of the bar and describe them in 3 different ways - as a fraction, as a decimal, as a percentage. E.g. 5 squares shaded out of 10: Fraction: 5/10 Decimals: 0.5 Percentage: 50%
Challenge 3: 	Make some cards with pairs of equivalents fractions and decimals. Use these to play the memory game or snap.  If you don't have time to make your own cards there is an online memory game - follow the QR code to play! <a href="https://nrich.maths.org/problems/matching-fractions-decimals-and-percentages">https://nrich.maths.org/problems/matching-fractions-decimals-and-percentages</a>
Challenge 4:	Make your own dominoes with fractions on one side and percentages on the other. Play the game matching the conversions.  
Challenge 5: 	Play this matching game. A flexible matching game which can help you to recognise equivalence of fractions, decimals and percentages. <a href="https://mathsframe.co.uk/en/resources/resource/120/match-fractions-decimals-and-percentages">https://mathsframe.co.uk/en/resources/resource/120/match-fractions-decimals-and-percentages</a>
Challenge 6:	Mix two juices, decide which fraction of your cup will be orange juice (e.g. $\frac{3}{4}$ orange, $\frac{1}{4}$ apple) Convert your mix into a decimal and a percentage. E.g. $\frac{3}{4} = 0.75 = 75\%$ . Try new recipes and write them in all three forms.

### Top Tips

The secret to success is practising little and often. Use time wisely. Can you practise these KIRFs while walking to school or during a car journey?