Summer 2

Learning Focus: Know the decimal and percentage equivalents of the fractions ½, ¼, ¾, ⅓, ⅔, tenths and fifths.

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

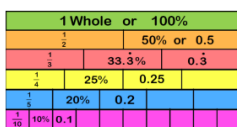| Representations	Key Vocabulary

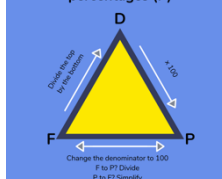

Concrete:

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

Pictorial:

1 Whole	or	100%
½		50% or 0.5
⅓	33.3%	0.3
¼	25%	0.25
⅕	20%	0.2
1/10	10%	0.1
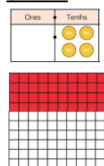
Fractions (F), decimals (D) and percentages (P)

Divide top by the bottom   × 100

D

F   P

Change the denominator to 100
F to P? Divide
P to F? Simplify

- Numerator
- Denominator
- Equivalent
- Convert
- Fraction
- Tenth
- Percent

Getting Started

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? You do not 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.

Suggested Activities

- **Dominos -** write the fraction, decimal and percentage the domino is showing
- **Pairs game -** make your own fraction, decimal, percentage card matching game
- **Fraction / Decimal / Percentage Poster -** create a poster which explains how to convert between fractions, decimals and percentages
- **Let's go shopping -** look out for percentages when out shopping. What is X % as a decimal? What is X % off the given price?

Useful Websites

- White Rose Maths
- Math Playground: Planet Decention
- Maths Frame: Match Fractions, Decimals and Percentages
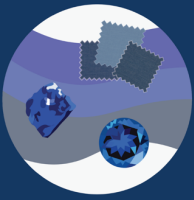
Key Vocabulary Explained

- **Numerator -** The numerator is the number written on the top of a fraction. It represents the number of parts taken out of the whole.

- **Denominator -** The number at the bottom of a fraction, which indicates how many equal parts a whole is divided into.

- **Equivalent -** The same as or equal to something else.

- **Convert -** To change the expression without changing the size or amount.

- **Decimal number -** A number with a decimal point.

- **Fraction -** A fraction represents the equal parts of the whole.

- **Hundredth -** One out of 100 equal parts. The fraction form is 1 / 100 and the decimal 0.01

- **Tenth -** One out of 10 equal parts. The fraction form is 1 10 and the decimal 0.1

- **Percent -** Parts per 100. It shows the ratio 'out of 100.'

$\frac{1}{2} = 0.5$	= 50%	$\frac{1}{100} = 0.01$	= 1%
$\frac{1}{4} = 0.25$	= 25%	$\frac{7}{100} = 0.07$	= 7%
$\frac{3}{4} = 0.75$	= 75%	$\frac{21}{100} = 0.21$	= 21%
$\frac{1}{10} = 0.1$	= 10%	$\frac{75}{100} = 0.75$	= 75%
$\frac{1}{5} = 0.2$	= 20%	$\frac{99}{100} = 0.99$	= 99%
$\frac{3}{5} = 0.6$	= 60%		
$\frac{9}{10} = 0.9$	= 90%		