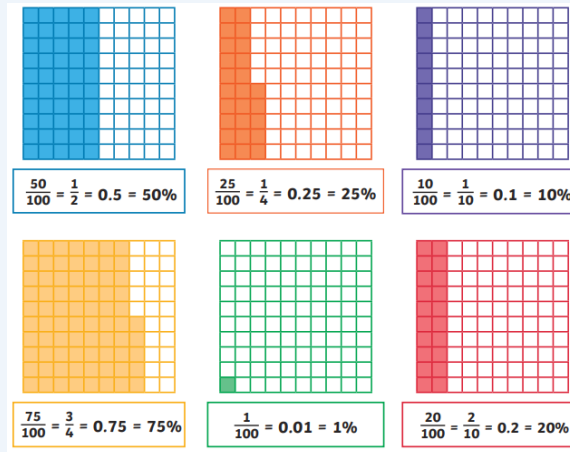# Year 6 Summer

KIRF – I know equivalences of fractions, decimals and percentages.

Equivalences: **Fractions, decimals and percentages** are different ways of representing a proportion of the same amount. It is important that children know the equivalences and can rapidly recall them.

What can this look like?

$\frac{50}{100} = \frac{1}{2} = 0.5 = 50\%$

$\frac{25}{100} = \frac{1}{4} = 0.25 = 25\%$

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

$\frac{75}{100} = \frac{3}{4} = 0.75 = 75\%$

$\frac{1}{100} = 0.01 = 1\%$

$\frac{20}{100} = \frac{2}{10} = 0.2 = 20\%$

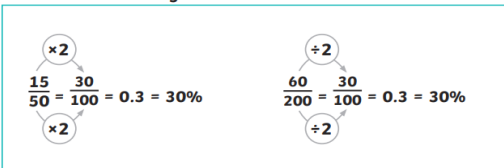| Fraction	Decimal	Percentage
$\frac{22}{100}$	0.22	22%
$\frac{83}{100}$	0.83	83%
$\frac{48}{100}$	0.48	48%
$\frac{75}{100}$	0.75	75%
$\frac{95}{100}$	0.95	95%
$\frac{16}{100}$	0.16	16%

Concrete

Pictorial

Abstract

Questions to ask at home

If I have 50%, what is this as a fraction or decimal?

If I have 0.25, what is this as a fraction or percentage?

Fractions to Percentages

$\frac{15}{50} = \frac{30}{100} = 0.3 = 30\%$ (×2)

$\frac{60}{200} = \frac{30}{100} = 0.3 = 30\%$ (÷2)

Things to try

Know tenths as decimals (tenths), know fifths as decimals, know quarters and half as decimals.

https://www.topmarks.co.uk/Flash.aspx?f=BingoFractionsv3

https://mathsframe.co.uk/en/resources/resource/120/match_fractions_decimals_and_percentages#.UCdcd2MsCEY

https://nrich.maths.org/6945

https://nrich.maths.org/1249

Key vocabulary

Per cent (%)= out of 100

Compare

Convert

Equivalent