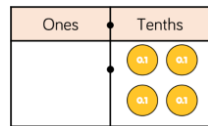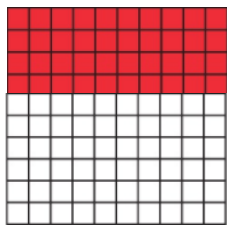# KIRF: I can convert between decimals, fractions and percentages.

Children should be able to convert between fractions, decimals and percentages and recall common decimal, fraction and percentage equivalences instantly.
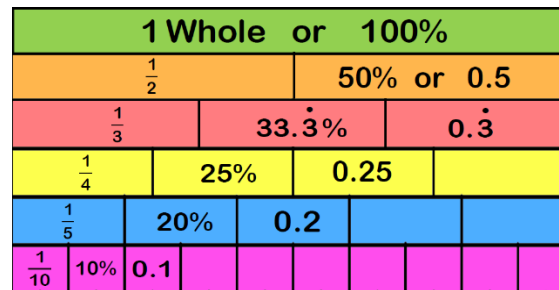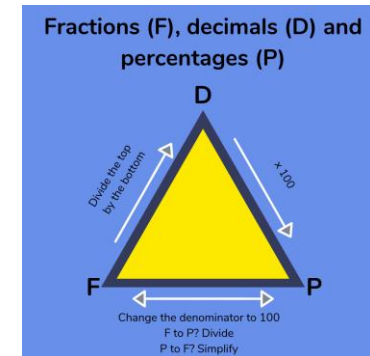
What can this look like?

Concrete:

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

Pictorial:

1 Whole	or	100%
$\frac{1}{2}$	50% or 0.5	
$\frac{1}{3}$	33.\dot{3}%	0.\dot{3}
$\frac{1}{4}$	25%	0.25
$\frac{1}{5}$	20%	0.2
$\frac{1}{10}$	10%	0.1

Abstract:

Fractions (F), decimals (D) and percentages (P)

0.5	50%	$\frac{1}{2}$
0.25	25%	$\frac{1}{4}$
0.1	10%	$\frac{1}{10}$
0.01	1%	$\frac{1}{100}$
0.2	20%	$\frac{1}{5}$
0.75	75%	$\frac{3}{4}$

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

Questions to ask at home

What is 15% as a **fraction** and **decimal**?

Which is closer to 100%, $\frac{4}{5}$ or 0.5? How do you know?

Complete the sentence- to **convert** a decimal to a percentage you …

Key vocabulary

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.

Per cent- Parts per 100. It shows the ratio 'out of 100'.

Things to try

Dominos- write the fraction, decimal and percentage the domino is showing

Pairs game- make your own fraction, decimal, percentage card matching game

FDP 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 25% as a decimal?

Websites:

https://www.mathplayground.com/percent04.html

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

https://whiterosemaths.com/homelearning/year-6/spring-week-3-number-percentages/