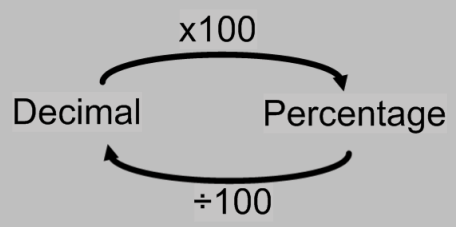
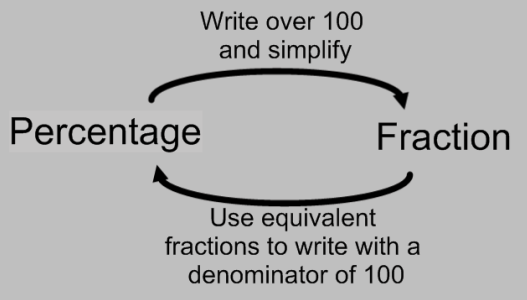
Year 7 Unit 5 Percentages

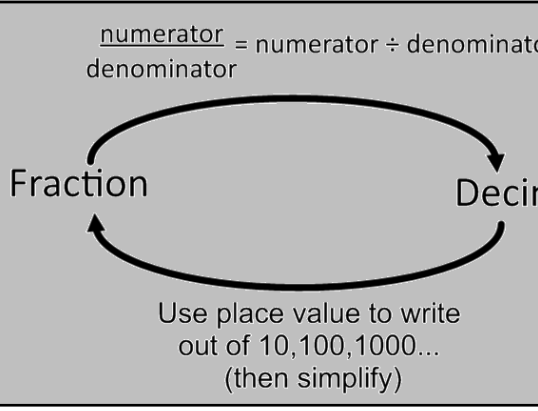
COMMON FDP CONVERSIONS		
fraction	**decimal**	**percentage**
1/2	**0.5**	**50%**
1/4	**0.25**	**25%**
3/4	**0.75**	**75%**
1/10	**0.1**	**10%**

COMMON PERCENTAGES	
percentage	parts per **100,** symbol **%**
find 10%	divide by **10** (because **100% ÷ 10 = 10%**)
find 1%	divide by **100** (because **100% ÷ 100 = 1%**)
find 50%	divide by **2** (because **100% ÷ 2 = 50%**)
find 25%	divide by **4** (because **100% ÷ 4 = 25%**)
find 75%	add together **50% and 25%**

FDP CONVERSIONS







KEY CONCEPTS	
percentages	out of **100**
proportion	an **amount** of a **whole** can be **fractions**, **decimals** or **percentages**

PERCENTAGE CALCULATIONS	
multiplier	a percentage **written** as a **decimal**
percentage increase	**adding a percentage** to the original amount
percentage increase non-calc	find the **percentage** using **box** method, then **add** it on to the **original** amount
percentage increase calc	**multiplier** method: use **1.__ and multiply** by original
percentage decrease	**subtracting a percentage** from the original amount
percentage decrease non-calc	find the **percentage** using **box** method, then **subtract** it from the **original** amount
percentage decrease calc	multiplier method: do **100 - %** to give **0.__ and multiply** by original

INTEREST	
principal	the **starting** amount
simple interest	the **same amount** is **added each year** 1. find the **percentage** 2. x by **years** **3. add** on
compound interest	exponential growth, **accumulated interest** paid on the original amount, each year a **larger amount** of interest is paid. **final total = principal x multiplier^n** principal = **original / starting amount** multiplier = **% increase / decrease** n = **number of time periods** (per annum = per year)