# Outcome 1 - Changing between Fractions, Decimals & Percentages

# Bronze examples

#### Examples... Fraction Decimal Percentage 97 0.97 97% **100** 3 3% 0.03 $\overline{100}$ 11 11% 0.11 $\overline{100}$

### Silver examples

Examples **Change into an equivalent fraction out of 100!**			
Fraction	Decimal	Percentage	
$\frac{3}{4} = \frac{75}{100}$	0.75	75%	
$\frac{22}{100} = \frac{11}{50}$	0.22	22%	
60 3	0.6	60%	
100 = 5		**Don't forget to simplify!**	

# Gold examples

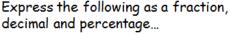
Examples		to an equivalent out of 100!**
Fraction	Decimal	Percentage
$\frac{13}{20} = \frac{65}{100}$	0.65	65%
$\frac{86}{100} = \frac{43}{50}$	0.86	86%
68 17	0.68	68%
$\overline{100} = \overline{25}$		**Don't forget to simplify!**

# **Bronze Questions**

Express the following as a fraction, decimal and percentage...



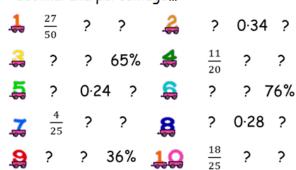
# Silver Questions





### Gold Questions

Express the following as a fraction, decimal and percentage...



Rule 1 - To change a fraction into a decimal... do the division.

Rule 2 -To change a decimal into a percentage... multiply by 100.

Rule 3 - To change a percentage into a fraction... put the percentage over 100.

### Bronze Answers

- 1. 19/100 0.19 19% 2. 43/100 0.43 43%
- 3. 53/100 0.53 53% 4. 83/100 0.83 83%
- 5. 23/100 0·23 23% 6. 79/100 0·79 79%
- 7. 31/100 0.31 31% 8. 29/100 0.29 29%
- 9. 7/100 0.07 7% 10. 71/100 0.71 71%

### Silver Answers

- 1. 1/2 0·5 50% 2. 3/10 0·3 30%
- 3. 4/5 0.8 80% 4. 9/10 0.9 90%
- 5. 7/10 0·7 70% 6. 1/5 0·2 20%
- 7. 1/5 0.2 20% 8. 2/5 0.4 40%
- 9. 17/50 0.34 34% 10. 43/50 0.86 86%

### Gold Answers

- 1. 27/50 0·54 54% 2. 17/50 0·34 34%
- 3. 13/20 0·65 65% 4. 11/20 0·55 55%
- 5. 6/25 0·24 24% 6. 19/25 0·76 76%
- 7. 4/25 0.16 16% 8. 7/25 0.28 28%
- 9. 9/25 0.36 36% 10. 18/25 0.72 72%