

Outcome 1 - Changing between Fractions, Decimals & Percentages

Bronze examples

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

Silver examples

Examples... <small>**Change into an equivalent fraction out of 100!**</small>		
Fraction	Decimal	Percentage
$\frac{3}{4} = \frac{75}{100}$	0.75	75%
$\frac{22}{100} = \frac{11}{50}$	0.22	22%
$\frac{60}{100} = \frac{3}{5}$	0.6	60%

Don't forget to simplify!

Gold examples

Examples... <small>**Change into an equivalent fraction out of 100!**</small>		
Fraction	Decimal	Percentage
$\frac{13}{20} = \frac{65}{100}$	0.65	65%
$\frac{86}{100} = \frac{43}{50}$	0.86	86%
$\frac{68}{100} = \frac{17}{25}$	0.68	68%

Don't forget to simplify!

Bronze Questions

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

1	$\frac{19}{100}$?	?	2	?	0.43	?
3	?	?	53%	4	$\frac{83}{100}$?	?
5	?	0.23	?	6	?	?	79%
7	$\frac{31}{100}$?	?	8	?	0.29	?
9	?	?	7%	10	$\frac{71}{100}$?	?

Silver Questions

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

1	$\frac{1}{2}$?	?	2	?	0.3	?
3	?	?	80%	4	$\frac{9}{10}$?	?
5	?	0.7	?	6	?	?	20%
7	$\frac{1}{5}$?	?	8	?	0.4	?
9	?	?	34%	10	$\frac{43}{50}$?	?

Gold Questions

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

1	$\frac{27}{50}$?	?	2	?	0.34	?
3	?	?	65%	4	$\frac{11}{20}$?	?
5	?	0.24	?	6	?	?	76%
7	$\frac{4}{25}$?	?	8	?	0.28	?
9	?	?	36%	10	$\frac{18}{25}$?	?

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

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|---------------------|----------------------|
| 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% |