## Maths Block 3



Percentage Bubbles help you to work out any percentage


Percent - Calculator

Convert your percentage to a decimal to get a multiplier
$12 \%$ of 630
$12 \div 100=0.12$
Multiply by this decimal $630 \times 0.12=75.6$


Converting Fractions / Decimals/Percentages


| Percentage Increase /Decrease |  |
| :--- | :--- |
| Increase <br> 140 by $12 \%$ | Decrease <br> 140 by $12 \%$ |
| Find $12 \%$ of 140 | Find $12 \%$ of 140 |
| $12 \%$ 0f 140 is 21 <br> is 21 | $12 \%$ 0f 140 |
| Add it to the <br> original value | Subtract from <br> original value |
| $140+21=161$ | $140-21=119$ |


| Express one value as a percentage of another | Learn these Fractions Decimals \& \% |
| :---: | :---: |
| What is 35 as a percentage of 900 ? 1. | $3 / 4=\begin{aligned} & 0.75 \\ & 75 \%\end{aligned}$ |
| Divide the first value by the total value |  |
| $35 \div 900 \quad \frac{35}{900}$ | $1 / 3=0.33^{\circ}$ |
| $2 . \quad \frac{900}{}$ | $3-33.3 \%$ |
| Multiply by 100 (per cent) $\frac{35}{900}$ | $\frac{1}{4}=\begin{aligned} & 0.25 \\ & 25 \%\end{aligned}$ |
| What is 12 as a percentage of 120? | $\frac{1}{5}=\begin{aligned} & 0.2 \\ & 20 \% \end{aligned}$ |
| $\frac{12}{120}=\underset{\text { (simplify) }}{\frac{1}{10} \times 100=10 \%}$ | $\frac{1}{8}=\begin{aligned} & 0.125 \\ & 12.5 \% \end{aligned}$ |

Fraction of an Amount

Divide by the denominator Multiply by the numerator


Decimal Place Value

|  |
| :---: |
|  |  |
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|  |  |

