## Geometry, Measurement and Finance 10 - Conversions \& Formulas

## IMPORTANT CONVERSIONS...



## SURFACE AREA FORMULAS...

$\mathrm{SA}_{\text {prism }}=2 \times A_{\text {base }}+$ Area of the rectangular lateral faces
$\mathrm{SA}_{\text {pyramid }}=A_{\text {base }}+$ Area of the triangular lateral faces
$\mathrm{SA}_{\text {cylinder }}=2 \pi r^{2}+2 \pi r h$
$\mathrm{SA}_{\text {cone }}=\pi r^{2}+\pi r s$
$\mathrm{SA}_{\text {sphere }}=4 \pi r^{2}$

## Pythagorean Theorem...

$c^{2}=a^{2}+b^{2}$

## VOLUME FORMULAS...

$\mathrm{V}_{\text {prism }}=A_{\text {base }} \times$ height
$\mathrm{V}_{\text {pyramid }}=\frac{A_{\text {base }} \times \text { height }}{3}$
$\mathrm{V}_{\text {cylinder }}=\pi r^{2} h$
$\mathrm{V}_{\text {cone }}=\frac{\pi r^{2} h}{3}$
$\mathrm{V}_{\text {sphere }}=\frac{4}{3} \pi r^{3}$

