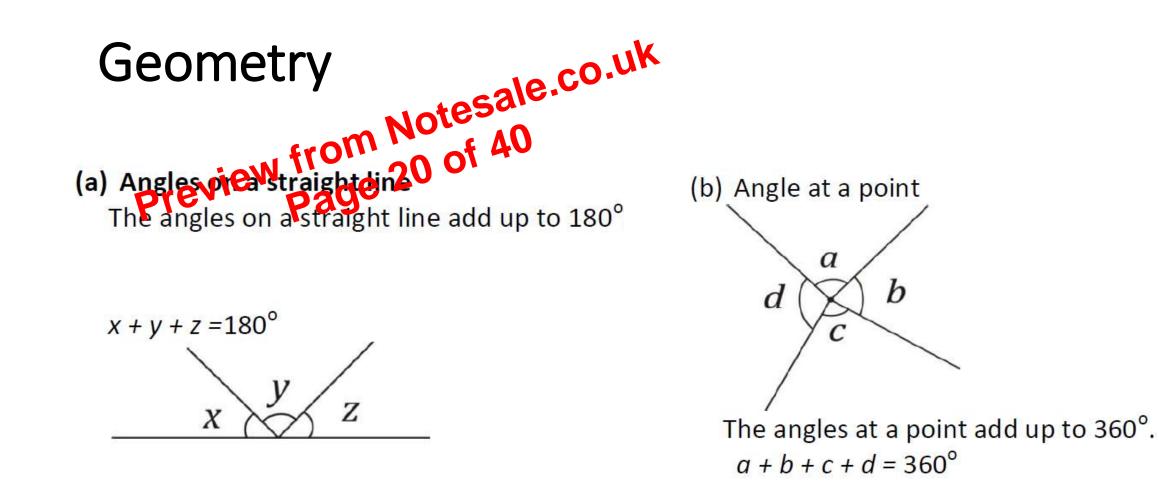
- Percentages:
 Percent means per hundred.. To express one quantity as a percentage of another, first write the first quantity as a fraction of the second another. second and then multiply by 100.
- Profit = S.P. C.P.
- Loss = C.P. S.P.
- Profit percentage = $\frac{SP-CP}{CP} \times 100$
- Loss percentage = $\frac{CP SP}{CP} \times 100$
- where CP = Cost price and SP = Selling price

Area and Perimeter:

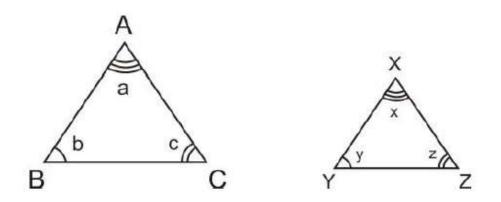
		.co.uk	
Figure	Diagrantesa	Area	Perimeter
Rectangle Previe	Digrotesale N from 15 of 40 page 15 b l	Area = <i>l × b</i>	perimeter = $2(l + b)$
Square	$\begin{array}{c c} a \\ a \\ \hline a \\ \hline a \end{array} a$	Area = side × side = $a \times a$	perimeter = $4 \times side$ = $4 \times a$
Parallelogram	a h	Area = b × h	perimeter = $2(a + b)$
	b d	Area = $ab \sin \theta$ where a, b are sides and θ is the included angle	Activate Windows Go to Settings to activat

Surface Area and Volume:

Pyramid Prev	iew from Notes Page A	Base area + area of the shapes in the sides	Volume = $\frac{1}{3}$ × base area × perpendicular height	
Cuboid	b	Surface area = 2(<i>lb</i> + <i>bh</i> + <i>lh</i>)	Volume = $l \times b \times h$	
Cube	e e	Surface area = $6l^2$	Volume = l^3	
Hemisphere	_r	Curved surface area = $2\pi r^2$	Volume = $\frac{2}{3}\pi r^3$ Activate Windows	



- - i) The angles of one triangle are equal to the corresponding angles of the other triangle.



 \triangle ABC is similar to \triangle XYZ because $\angle a = \angle x$; $\angle b = \angle y$ and $\angle c = \angle z$

Midpoint / Length of a Line segment • Let $A(xey_1)$ and $B(A_2, y_2)$ be two points, their

Midpoint =(
$$\frac{x_1 + x_2}{2}$$
, $\frac{y_1 + y_2}{2}$)
Length = $\sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$