

1

APPENDIX A GRADE 10 ESSENTIAL UNIT D – 2-D GEOMETRY

GEOMETRIC FORMULAE		
Shape	Diagram	Formulae
	FLAT OBJECTS 2 DIMENSIONAL	
Square	S	Perimeter, P:
(all four sides same length, 90° corners)	S	$\mathbf{P} = \mathbf{s} + \mathbf{s} + \mathbf{s} + \mathbf{s} = 4^* \mathbf{s}$
(a rectangle with all sides same length)		Area, A: $A = s * s = s^2$
Rectangle	[
(Four sides, square		Perimeter, P: P = l + w + l + w = 2l + 2w
conters)		Area, A: A = l * w
Parallelogram and Rhombus		Perimeter; P: P = 2b + 2s
(a leaning rectangle or leaning square)		Area; A:
Note b is always⊥to h	·	$\mathbf{A} = \mathbf{b} * \mathbf{h}$ ***Note*** $\mathbf{b} \text{ is always} \perp \mathbf{t} \mathbf{o} \mathbf{h}$
Trapezoid	`	0 15 arways ± 10 m
(Four sides, only two sides parallel	b_1 b_1 s_1	Perimeter; P: $P = b_1 + s_1 + b_2 + s_2$
{ })	b_2 b_3	Area; A: A = b _{average} *h
Note		$=\frac{1}{2}(b_1+b_2)*h$
b is always⊥to h		

Revised:190225



Add your own extra formulae below.