LEARNING GUIDE 7: **UNIT 2**

Ref: Math Links 8 (Chapter 4, pp. 157 - 326)

NAME: _____ TA: _____

TEACHER: _____

LEARNING GUIDE EXPECTATIONS:

(1) Review the skills learned in learning guides 4,5, and 6.

ASSIGNMENTS:

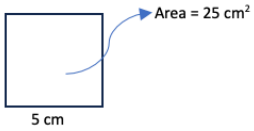
Review and Challenge

- ☐ Assignment 1: p. 157-158 — #12,13,16,17,19
- ☐ Assignment 2: p. 324-326 — #1-7,18-21
- ☐ Review quizzes for LG 4, 5 & 6

Squares

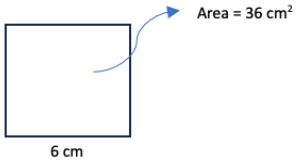
To find AREA

Length x Width = Area
5 cm x 5 cm = 25 cm^2



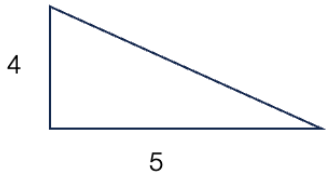
To find SIDE LENGTH

$\sqrt{\text{Area}}$ = length
$\sqrt{36}$ = 6 cm

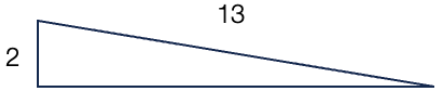


In words	Numbers	Evaluate
Five squared	5^2	$5^2 = 25$
Square root of 36	$\sqrt{36}$	$\sqrt{36} = 6$

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



$a^2 = c^2 - b^2$

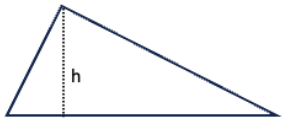


Important! On the test you will be given the formulas to find the area for a rectangle, triangle & circle & circumference. You will need to know how to use them to calculate surface area & volume.

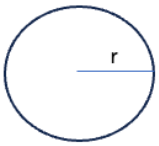
Area Formulas



length x width



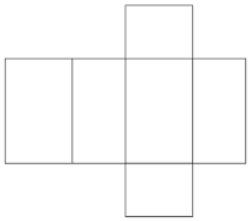
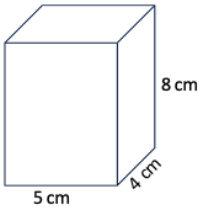
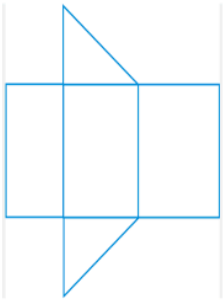
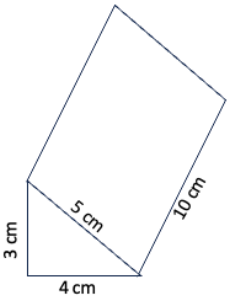
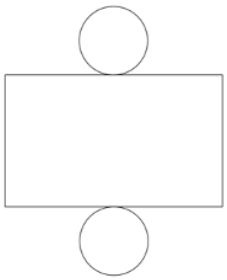
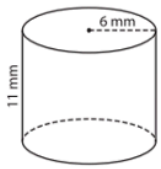
base x height ÷ 2



πr^2 *means.....* $\pi \times r \times r$

Circumference = $\pi \times d$

Surface Area & Volume Formulas

Net	3D Object	Surface Area	Volume
		front & back side & side top & bottom **Total**	base area x height of prism
		Triangle Triangle Rectangle Rectangle Rectangle **Total**	base area x height of prism
		r = d = Circle 1 Circle 2 Sleeve circumference x h **Total**	base area x height of prism