Name:

### 10-2B Surface Area of Prisms

\*units squared!!

m² in² ft² etc.

Surface Area - Sum of the greas of all the surfaces (faces) of a 3-D figure

# For Rectangular Prisms

B: area of base shape

P: perimeter of base

h: height of prism

# For Triangular Prisms

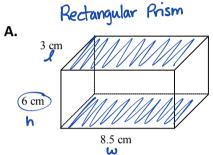
$$SA = 2B + Ph$$

$$SA = 2\left(\frac{bha}{2}\right) + Ph$$

(25.5 cm)

12 cm

Ex. 1: Find the surface area of each prism. Round to the nearest tenth if necessary. Triangular Prism



back bottom gide tront **toP** 

Net: 2-D picture of the curfaces



SA = 2/(bha) + Ph SA = (12)(8) + (10+12+10)(25.5) SA = 9L + 32(25.5)SA = 96 + 816 SA = 912 cm2



B= 40

#### **KEY TIPS:**

P=10+12+10

SA=2B+Ph

SA = 96+816

SA = 912 cm2

SA: 2(48)+(32)(25.5)

- Circle (height of figure) 1)
- Shade (bases)
- Name (figure using the shape of the base)
- 4) Write basic formula for 3-D figure
- 5) Write specific formula (according to base)
- Substitute values
- Calculate
- Check units/rounding

Homework: 10-2B Skills Practice Worksheet

