9.2 Surface Area of Prisms and Cylinders Goal: To be able to find the surface areas of prisms and cylinders

Warm up

Find the area of each polygon. If necessary, round to the nearest whole number.

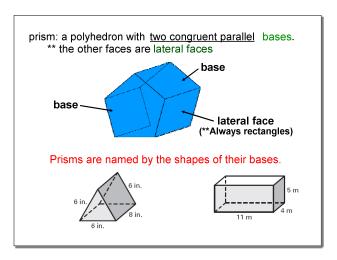
1. triangle: base = 12 ft, height = 9 ft

2. square: side = 13 in.

3. rectangle: length = 10 m, width = 8 m

4. circle: radius = 3 cm

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Lateral Area:

Perimeter of the base times the height

$$L.A. = (p) (h)$$

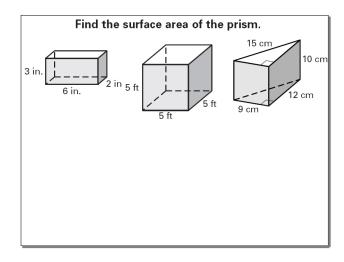
distance between the two bases

Surface Area of a Prism:
Lateral Area + Area of the two bases

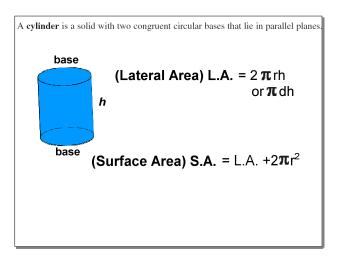
S.A. = L.A. + 2B

Area of the base
** This formula
changes with
the shape of the
base

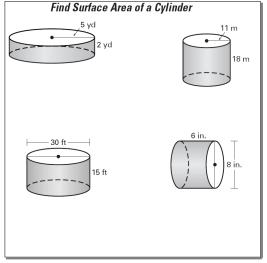
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