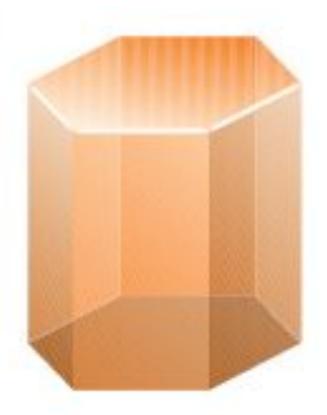
Areas of Prisms

$A = 2 \cdot A_{\text{base}} + A_{\text{lateral}}$

Right prism Area

$$A = 2 \cdot A_{\text{base}} + A_{\text{lateral}}$$

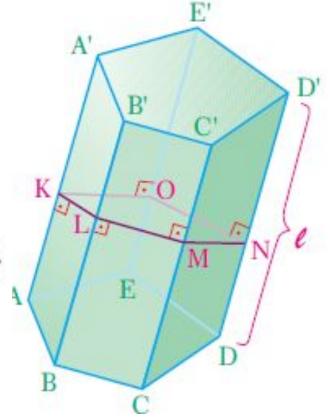
$$A_{\text{lateral}} = h \cdot P_{\text{base}}$$



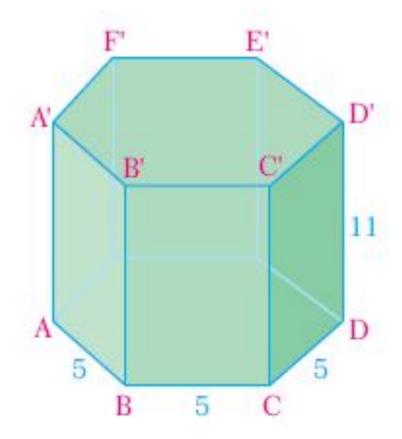
Area of an Oblique Prism

$$A_{\text{lateral}} = \ell \cdot P_{\text{right section}}$$

$$A = 2 \cdot A_{\text{base}} + l \cdot P_{\text{right section}}$$

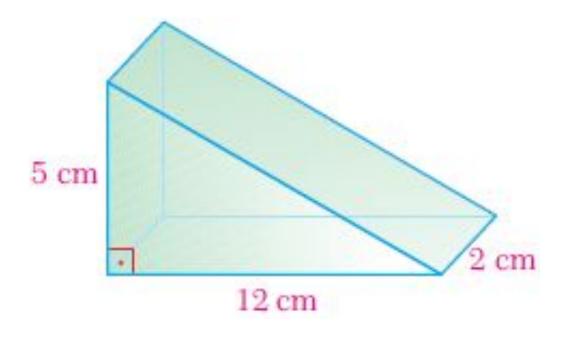


The length of a basal edge of a regular hexagonal right prism is 5 cm and the height is 11 cm. Find the total surface area of the prism.

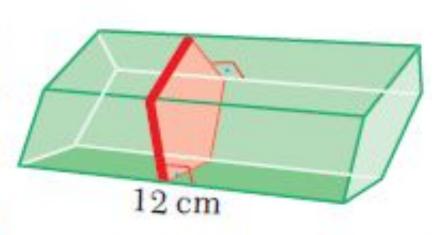


What is the lateral area of a regular octagonal prism if all its edges are 5 cm?

What is the total surface area of the right triangular prism in the figure?



The oblique prism in the figure has an irregular pentagon base and a regular pentagon right section



with side length 3 cm. Find the area of the lateral surface.

EXAMPLE

The three different faces of a rectangular box have areas 45 cm2, 60 cm2 and 75 cm2. Find the edge lengths of this box.

EXAMPLE

What is the total surface area of a cube with 7 cm edge length?

EXAMPLE

The area of a cube is 1350 m2. Find the perimeter of one face.