Surface Area
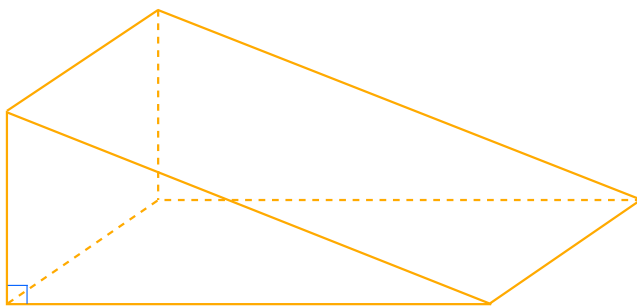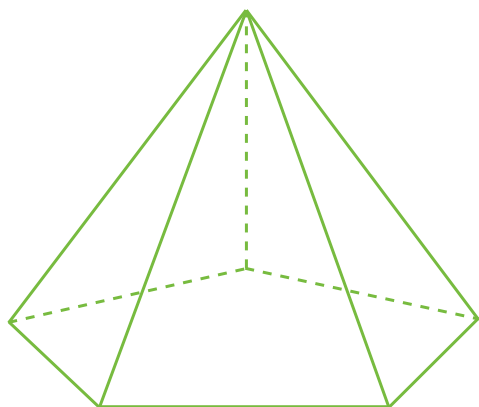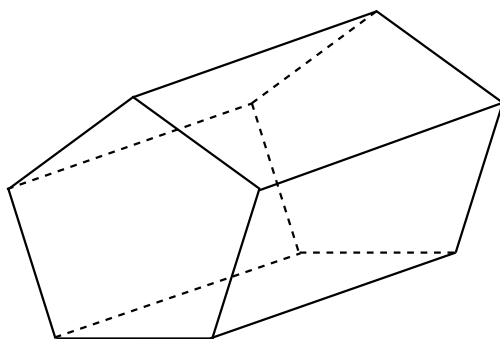
the sum of the areas of all the surfaces of a three-dimensional figure.

Prism

a polyhedron with exactly two congruent faces, called bases.
The other sides are called lateral faces.

Prism

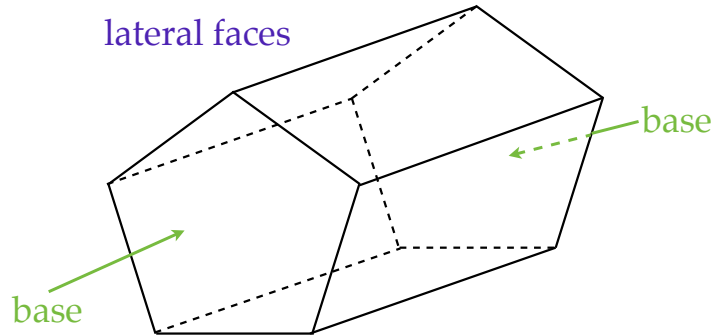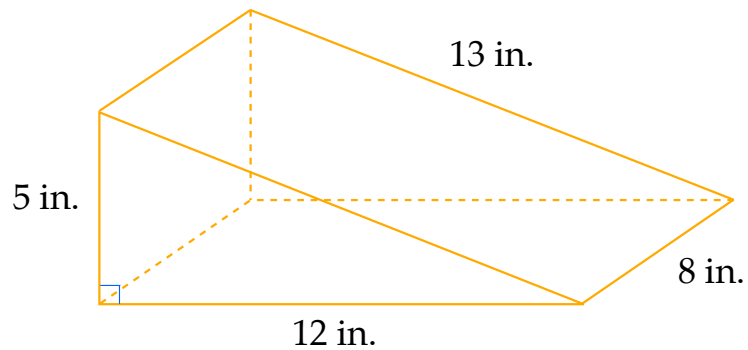## Surface Area of a Prism

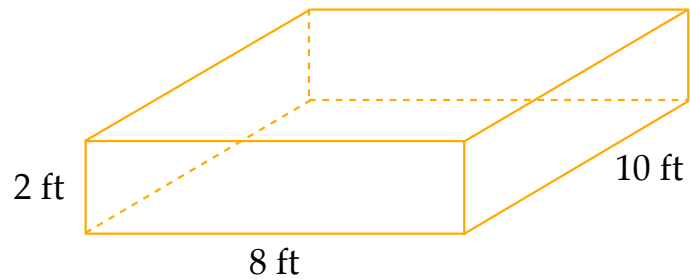$S.A. =$ Area of 2 Bases $+$ Area of Lateral Faces

$$S.A. = 2B + LA$$

lateral faces

base

base

Calculate the Surface Area of the following Prisms

$$S.A. = 2B + LA$$

13 in.

5 in.

8 in.

12 in.

Calculate the Surface Area of the following Prisms

$$S.A. = 2B + LA$$

2 ft

10 ft

8 ft

Calculate the Surface Area of the following Prisms

$$S.A. = 2B + LA$$

6 in

12 in

Find Area of the Regular Hexagon.

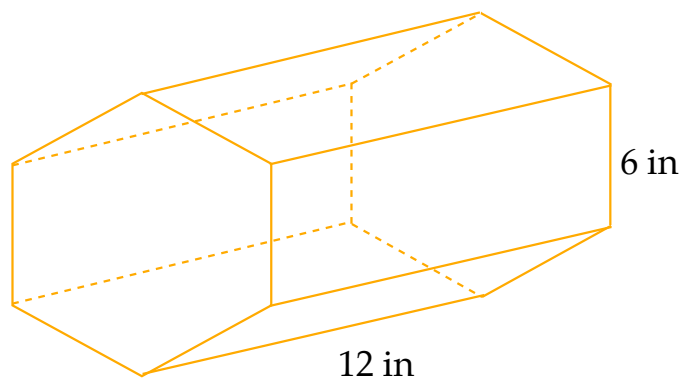$$P = s \cdot n \qquad A = \frac{1}{2} P \cdot a$$

6 in

Calculate the Surface Area of the following Prisms

$$S.A. = 2B + LA$$

6 in

12 in

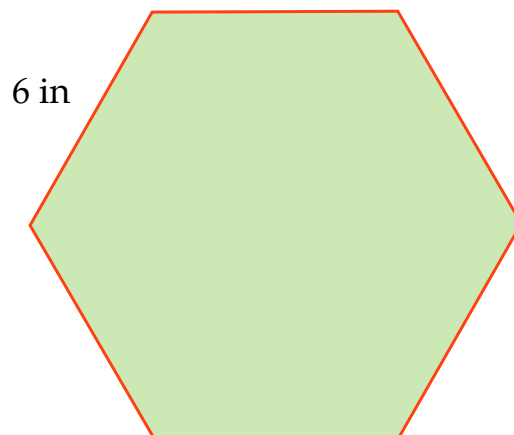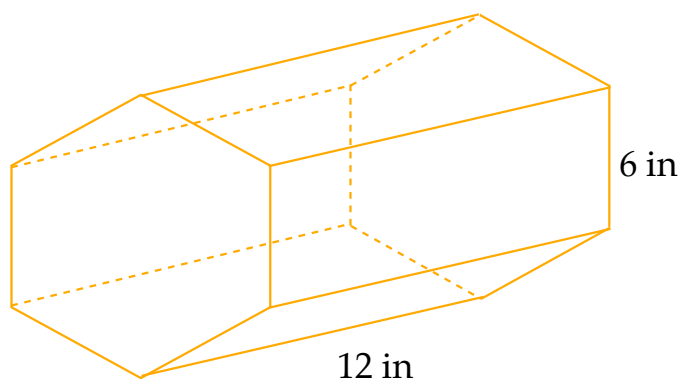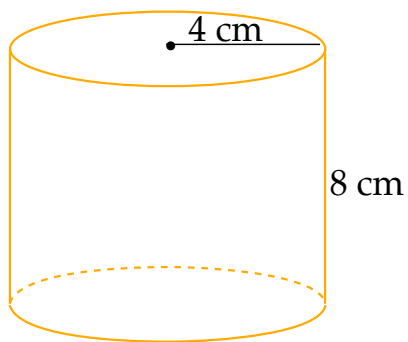Calculate the Surface Area of the following Prisms

$$S.A. = 2B + LA$$

4 cm

8 cm

Prism

Surface Area of a Prism

$$S.A. = \text{Area of 2 Bases} + \text{Area of Lateral Faces}$$

$$S.A. = 2B + LA$$

$$LA = Perimeter\ of\ Base \cdot height$$

lateral faces

base

base