

Surface Area of a Hexagonal Pyramid

Name: _____

Date: _____

To find the surface area of a hexagonal pyramid ($A = 3as + 3bs$).

- 1) What is the surface area with a base length of $\frac{2}{5}$ inch, apothem length $\frac{1}{5}$ inch and a slant height of $\frac{3}{5}$ inch?

- 2) The surface area of a hexagonal pyramid is given by 4752 square inches and the side length is 33 inches and apothem length 11 inches. Find the slant height of the hexagonal pyramid.

- 3) Find the surface area of a hexagonal pyramid with a base area of 2079 square millimeters and a slant height of 42 millimeters, the side length is 33 millimeters and apothem length 21 millimeters?

- 4) Find the surface area with a base length of 47meters, apothem length 35meters and a slant height of 49meters.

- 5) Find the base area of the hexagonal pyramid whose slant height is 45meters and the side length is 37meters and apothem length 27meters.

- 6) What is the base area of the hexagonal pyramid whose lateral edge is 52yards, apothem length 34 yards and the side length is 46yards?

- 7) Find the surface area of a hexagonal pyramid with apothem length of 29meters, and a slant height of 44meters and side length 39meters?

- 8) The surface area of a hexagonal pyramid is 3750square centimeters, apothem length 20centimeters and the side length is 25centimeters. Find the slant height of the hexagonal pyramid.

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To find the surface area of a hexagonal pyramid ($A = 3as + 3bs$).

- 1) What is the surface area with a base length of $\frac{2}{5}$ inch, apothem length $\frac{1}{5}$ inch and a slant height of $\frac{3}{5}$ inch?

$$\frac{24}{25} \approx 0.96 \text{ square inches}$$

- 2) The surface area of a hexagonal pyramid is given by 4752 square inches and the side length is 33 inches and apothem length 11 inches. Find the slant height of the hexagonal pyramid.

$$37 \text{ inches}$$

- 3) Find the surface area of a hexagonal pyramid with a base area of 2079 square millimeters and a slant height of 42 millimeters, the side length is 33 millimeters and apothem length 21 millimeters?

$$6237 \text{ square millimeters}$$

- 4) Find the surface area with a base length of 47meters, apothem length 35meters and a slant height of 49meters.

$$11844 \text{ square meters}$$

- 5) Find the base area of the hexagonal pyramid whose slant height is 45meters and the side length is 37meters and apothem length 27meters.

$$2997 \text{ square meters}$$

- 6) What is the base area of the hexagonal pyramid whose lateral edge is 52yards, apothem length 34 yards and the side length is 46yards?

$$4692 \text{ square yards}$$

- 7) Find the surface area of a hexagonal pyramid with apothem length of 29meters, and a slant height of 44meters and side length 39meters?

$$8541 \text{ square meters}$$

- 8) The surface area of a hexagonal pyramid is 3750square centimeters, apothem length 20centimeters and the side length is 25centimeters. Find the slant height of the hexagonal pyramid.

$$30 \text{ centimeters}$$
