Surface Area of a Hexagonal Pyramid

Name:_____   Date:_____

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

1) Find the surface area of a hexagonal pyramid with a base area of 384 square yards and a slant height of 19 yards and apothem length 8 yards?

    1296 square yards

2) Find the surface area of a hexagonal pyramid with a base area of 96 square meters, and a slant height of 11meters and side length 8 meters?

3) What is the surface area with a base length of $\frac{1}{2}$ inch, apothem length $\frac{1}{4}$ inch and a slant height of $\frac{3}{4}$ inch.

4) Find the surface area with a base length of 9centimeter, apothem length 8 centimeters and a slant height of 19centimeter.

5) The surface area of a hexagonal pyramid is 1836square meters, apothem length 11 meters and the side length is 18meters. Find the slant height of the hexagonal pyramid?

6) What is the base area of the hexagonal pyramid whose lateral edge is 24yards, apothem length 12 yards and the side length is 13yards?

7) The surface area of a hexagonal pyramid is given by 4524 square meters and the side length is 29meters and apothem length 19meters. Find the slant height of the hexagonal pyramid?

8) Find the base area of the hexagonal pyramid whose slant height is 24inches and the side length is 21inches and apothem length 17 inches.

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

1) Find the surface area of a hexagonal pyramid with a base area of 384 square yards and a slant height of 19 yards and apothem length 8 yards?

   1296 square yards

2) Find the surface area of a hexagonal pyramid with a base area of 96 square meters, and a slant height of 11meters and side length 8 meters?

   360 square meters

3) What is the surface area with a base length of $\frac{1}{2}$ inch, apothem length $\frac{1}{4}$ inch and a slant height of $\frac{3}{4}$ inch.

   $\frac{3}{2}$ square inches

4) Find the surface area with a base length of 9centimeter, apothem length 8 centimeters and a slant height of 19centimeter.

   729 square centimeters

5) The surface area of a hexagonal pyramid is 1836square meters, apothem length 11 meters and the side length is 18meters. Find the slant height of the hexagonal pyramid?

   23 meters

6) What is the base area of the hexagonal pyramid whose lateral edge is 24yards, apothem length 12 yards and the side length is 13yards?

   468 square yards

7) The surface area of a hexagonal pyramid is given by 4524 square meters and the side length is 29meters and apothem length 19meters. Find the slant height of the hexagonal pyramid?

   33 meters

8) Find the base area of the hexagonal pyramid whose slant height is 24inches and the side length is 21inches and apothem length 17 inches.

   1071 square inches