Surface Area of a Hexagonal Pyramid

Name:_____

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

1) What is the surface area with a base length of 0.97 millimeters, apothem length 0.65 millimeters and a slant height of 1.63 millimeters?

   _____

2) The surface area of a hexagonal pyramid is given by 78.21 square inches and the side length is 3.3 inches and apothem length 1.1 inches. Find the slant height of the hexagonal pyramid.

   _____

3) Find is the surface area of a hexagonal pyramid with a base area of 20.79 square meters and a slant height of 4.2 meters, the side length is 3.3 meters and apothem length 2.1 meters?

   _____

4) Find the surface area with a base length of 8.7inches, apothem length 3.5inches and a slant height of 10.9inches.

   _____

5) Find the base area of the hexagonal pyramid whose slant height is 4.5inches and the side length is 3.7inches and apothem length 2.7inches.

   _____

6) What is the base area of the hexagonal pyramid whose lateral edge is 5.2centimeters, apothem length 3.4centimeters and the side length is 4.6centimeters?

   _____

7) Find the surface area of a hexagonal pyramid with apothem length of 13.2yards, and a slant height of 24.4 yards and side length 18.3 yards?

   _____

8) The surface area of a hexagonal pyramid is 1068.75centimeters, apothem length 5.9centimeters and the side length is 12.5centimeters. Find the slant height of the hexagonal pyramid.

   _____

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 0.97 millimeters, apothem length 0.65 millimeters and a slant height of 1.63 millimeters?

   6.635 square millimeters

2) The surface area of a hexagonal pyramid is given by 78.21 square inches and the side length is 3.3 inches and apothem length 1.1 inches. Find the slant height of the hexagonal pyramid.

   6.8 inches

3) Find is the surface area of a hexagonal pyramid with a base area of 20.79 square meters and a slant height of 4.2 meters, the side length is 3.3 meters and apothem length 2.1 meters?

   62.37 square meters

4) Find the surface area with a base length of 8.7inches, apothem length 3.5inches and a slant height of 10.9inches.

   375.84 square inches

5) Find the base area of the hexagonal pyramid whose slant height is 4.5inches and the side length is 3.7inches and apothem length 2.7inches.

   29.97 square inches

6) What is the base area of the hexagonal pyramid whose lateral edge is 5.2centimeters, apothem length 3.4centimeters and the side length is 4.6centimeters?

   46.92 square centimeters

7) Find the surface area of a hexagonal pyramid with apothem length of 13.2yards, and a slant height of 24.4 yards and side length 18.3 yards?

   2064.24 square yards

8) The surface area of a hexagonal pyramid is 1068.75centimeters, apothem length 5.9centimeters and the side length is 12.5centimeters. Find the slant height of the hexagonal pyramid.

   22.6 centimeters