

Surface Area of a Pentagonal Pyramid

Name: _____

Date: _____

To find the surface area of a pentagonal pyramid ($A = \frac{5}{2}ab + \frac{5}{2}bs$).

- 1) Find the surface area with a base length of 5centimeter, apothem length of 4centimeter and a slant height of 9centimeter.

162.5 square centimeters

- 2) The surface area of a pentagonal pyramid is given by 996square meters, apothem length of 7meters and the side of the pyramid is 15meters. Find the slant height of the pentagonal pyramid.

- 3) The surface area of a pentagonal pyramid is 675square centimeters, apothem length of 4centimeters and the side of the square is 9centimeters. Find the slant height of the pentagonal pyramid.

- 4) Find the slant height of a pentagonal pyramid with a base area of 210square inches, apothem length of 9inches and a height of 12inches?

- 5) Find the base area of the pentagonal pyramid whose lateral edge is 8meters, apothem length of 4meters and the height is 6meters?

- 6) Find the surface area of a pentagonal pyramid with a base length of $\frac{3}{4}$ inch, apothem length of $\frac{1}{4}$ inch and a slant height of $\frac{1}{2}$ inch.

- 7) Find the surface area of a pentagonal pyramid with a base length of 8centimeters, apothem length of 4centimeters and a slant height of 11centimeters.

- 8) What is the base area of the pentagonal pyramid whose lateral edge is 11yards, apothem length of 4yards and the height is 9yards?

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162.5 square centimeters

- 2) The surface area of a pentagonal pyramid is given by 996square meters, apothem length of 7meters and the side of the pyramid is 15meters. Find the slant height of the pentagonal pyramid.

19.56 meters

- 3) The surface area of a pentagonal pyramid is 675square centimeters, apothem length of 4centimeters and the side of the square is 9centimeters. Find the slant height of the pentagonal pyramid.

26 centimeters

- 4) Find the slant height of a pentagonal pyramid with a base area of 210square inches, apothem length of 9inches and a height of 12inches?

18 inches

- 5) Find the base area of the pentagonal pyramid whose lateral edge is 8meters, apothem length of 4meters and the height is 6meters?

60 square meters

- 6) Find the surface area of a pentagonal pyramid with a base length of $\frac{3}{4}$ inch, apothem length of $\frac{1}{4}$ inch and a slant height of $\frac{1}{2}$ inch.

1.406 square inches

- 7) Find the surface area of a pentagonal pyramid with a base length of 8centimeters, apothem length of 4centimeters and a slant height of 11centimeters.

300 square centimeters

- 8) What is the base area of the pentagonal pyramid whose lateral edge is 11yards, apothem length of 4yards and the height is 9yards?

90 square yards
