

Math 8 Worksheet

Finding the Lengths of Missing Sides in Solids

- 1) Find the length of a rectangular prism with a surface area of 412 cm^2 , with a height of 10 cm and a width of 8 cm.

- 2) Find the height of a cylinder with a surface area of $288\pi\text{ cm}^2$ and a radius of 8 cm.

- 3) Find the length of one side of the square base of a pyramid with a lateral area of 360 cm^2 and a slant height of 15 cm.

4) Find the slant height of a hexagonal-based pyramid with a side length 20 cm, an apothem of 17 cm and a surface area of 2460 cm^2 .

5) Find the height of a pentagonal-based prism whose base has a side length of 8 cm, an apothem of 5.5 cm and which has a total surface area of 940 cm^2 .

Answers
1) 7 cm 2) 10 cm 3) 12 cm 4) 24 cm 5) 18 cm