

## Surface Area of a Cone

Name: \_\_\_\_\_

Date: \_\_\_\_\_

**Solve the problems.**

- 1) Find the height of a cone having the radius of the base as 13.8yd and the surface area of a cone is 1746.31yd<sup>2</sup>?  
\_\_\_\_\_
- 2) Calculate the surface area of a cone having the radius of the base as 9.9in and the height of the cone is 14.7in?  
\_\_\_\_\_
- 3) Find the radius of a cone whose surface area is 1201.84yd<sup>2</sup> and height 19yd.  
\_\_\_\_\_
- 4) Find the height of a cone having the surface area of 575.32in<sup>2</sup> and the radius of the cone is 7.8in?  
\_\_\_\_\_
- 5) Calculate the height of the cone, if the radius of the cone is 15mm and slant height is 25mm?  
\_\_\_\_\_
- 6) Find the radius of a cone whose surface area is 889.77yd<sup>2</sup> and height 19yd.  
\_\_\_\_\_
- 7) Find the height of a cone having the surface area of 2424.37mm<sup>2</sup> and the radius of the cone is 17.2mm?  
\_\_\_\_\_
- 8) Calculate the height of a cone whose surface area is 1589.49in<sup>2</sup>, radius 13.67in.  
\_\_\_\_\_
- 9) Calculate the height of the cone, if the radius of the cone is 21m and slant height is 35m?  
\_\_\_\_\_
- 10) Find the radius of a cone whose surface area is 1634.3m<sup>2</sup> and height 34m.  
\_\_\_\_\_

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**Solve the problems.**

- 1) Find the height of a cone having the radius of the base as 13.8yd and the surface area of a cone is 1746.31yd<sup>2</sup>?

22.6 ≈ 23 yd

- 2) Calculate the surface area of a cone having the radius of the base as 9.9in and the height of the cone is 14.7in?

859.12 ≈ 859 in<sup>2</sup>

- 3) Find the radius of a cone whose surface area is 1201.84yd<sup>2</sup> and height 19yd.

11.4 ≈ 11 yd

- 4) Find the height of a cone having the surface area of 575.32in<sup>2</sup> and the radius of the cone is 7.8in?

13.6 ≈ 14 in

- 5) Calculate the height of the cone, if the radius of the cone is 15mm and slant height is 25mm?

20mm

- 6) Find the radius of a cone whose surface area is 889.77yd<sup>2</sup> and height 19yd.

9.3yd

- 7) Find the height of a cone having the surface area of 2424.37mm<sup>2</sup> and the radius of the cone is 17.2mm?

21.67 ≈ 22mm

- 8) Calculate the height of a cone whose surface area is 1589.49in<sup>2</sup>, radius 13.67in.

18.92 ≈ 19 in

- 9) Calculate the height of the cone, if the radius of the cone is 21m and slant height is 35m?

28m

- 10) Find the radius of a cone whose surface area is 1634.3m<sup>2</sup> and height 34m.

11.1 ≈ 11 m