

## Surface Area of a Cone

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

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

**Solve the problems.**

- 1) Find the surface area of a circular cone whose height is 6cm and slant height is 8cm.  
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- 2) Find the radius of a cone whose surface area is  $100.9\text{m}^2$  and height 5m.  
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- 3) Find the surface area of a cone whose height is 8cm and slant height is 10cm.  
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- 4) Calculate the surface area of a cone having the radius of the base as 9in and the height of the cone is 13in?  
\_\_\_\_\_
- 5) Calculate the height of the cone, if the radius of the cone is 10cm and slant height is 18cm?  
\_\_\_\_\_
- 6) Find the radius of a cone whose surface area is  $440.67\text{cm}^2$  and height 11cm.  
\_\_\_\_\_
- 7) Find the height of a cone having the surface area of  $714.87\text{in}^2$  and the radius of the cone is 9in?  
\_\_\_\_\_
- 8) Calculate the height of a cone whose surface area is  $706.13\text{cm}^2$ , radius 9.5cm.  
\_\_\_\_\_
- 9) Find the surface area of a cone having the radius of the base as 12.9m and the height of the cone is 15.6m?  
\_\_\_\_\_
- 10) Find the height of a cone having the radius of the base as 7.6cm and the surface area of a cone is  $492.87\text{cm}^2$ ?  
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**Solve the problems.**

- 1) Find the surface area of a circular cone whose height is 6cm and slant height is 8cm.

$$\underline{220.85 \approx 221 \text{ cm}^2}$$

- 2) Find the radius of a cone whose surface area is  $100.9\text{m}^2$  and height 5m.

$$\underline{3.4 \approx 3 \text{ m}}$$

- 3) Find the surface area of a cone whose height is 8cm and slant height is 10cm.

$$\underline{301.59 \approx 302 \text{ cm}^2}$$

- 4) Calculate the surface area of a cone having the radius of the base as 9in and the height of the cone is 13in?

$$\underline{701.53 \approx 702 \text{ in}^2}$$

- 5) Calculate the height of the cone, if the radius of the cone is 10cm and slant height is 18cm?

$$\underline{14.96 \approx 15 \text{ cm}}$$

- 6) Find the radius of a cone whose surface area is  $440.67\text{cm}^2$  and height 11cm.

$$\underline{7\text{cm}}$$

- 7) Find the height of a cone having the surface area of  $714.87\text{in}^2$  and the radius of the cone is 9in?

$$\underline{13.57 \approx 14 \text{ in}}$$

- 8) Calculate the height of a cone whose surface area is  $706.13\text{cm}^2$ , radius 9.5cm.

$$\underline{10.5\text{cm}}$$

- 9) Find the surface area of a cone having the radius of the base as 12.9m and the height of the cone is 15.6m?

$$\underline{1343.16 \approx 1343 \text{ m}^2}$$

- 10) Find the height of a cone having the radius of the base as 7.6cm and the surface area of a cone is  $492.87\text{cm}^2$ ?

$$\underline{10.6 \approx 11 \text{ cm}}$$