

## Surface Area of a Cone

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

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

**Solve the problems.**

- 1) Find the radius of the cone, whose height is 4m and slant height, is 5m.  
\_\_\_\_\_ 3 m \_\_\_\_\_
- 2) Find the height of a cone whose surface area is  $213.15\text{cm}^2$  and radius 5cm.  
\_\_\_\_\_
- 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 7m and the height of the cone is 13m?  
\_\_\_\_\_
- 5) Calculate the radius of the cone, if the height of the cone is 13m and slant height is 15m?  
\_\_\_\_\_
- 6) Find the radius of a cone whose surface area is  $35.22\text{cm}^2$  and height 3cm.  
\_\_\_\_\_
- 7) Find the height of a cone having the surface area of  $76.31\text{cm}^2$  and the radius of the cone is 3cm?  
\_\_\_\_\_
- 8) Calculate the height of a cone whose surface area is  $1526.03\text{cm}^2$ , radius 14.5cm and slant height is 19cm.  
\_\_\_\_\_
- 9) Find the surface area of a cone having the radius of the base as 11m and the height of the cone is 13m?  
\_\_\_\_\_
- 10) Find the height of a cone having the radius of the base as 7cm and the surface area of a cone is  $417\text{cm}^2$ ?  
\_\_\_\_\_

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**Solve the problems.**

- 1) Find the radius of the cone, whose height is 4m and slant height, is 5m.  
3 m
- 2) Find the height of a cone whose surface area is  $213.15\text{cm}^2$  and radius 5cm.  
 $6.96 \approx 7 \text{ cm}$
- 3) Find the surface area of a cone whose height is 8cm and slant height is 10cm.  
 $301.59 \approx 302 \text{ cm}^2$
- 4) Calculate the surface area of a cone having the radius of the base as 7m and the height of the cone is 13m?  
 $478.63 \approx 479 \text{ m}^2$
- 5) Calculate the radius of the cone, if the height of the cone is 13m and slant height is 15m?  
 $7.483 \approx 7 \text{ m}$
- 6) Find the radius of a cone whose surface area is  $35.22\text{cm}^2$  and height 3cm.  
2cm
- 7) Find the height of a cone having the surface area of  $76.31\text{cm}^2$  and the radius of the cone is 3cm?  
 $4.12 \approx 4 \text{ cm}$
- 8) Calculate the height of a cone whose surface area is  $1526.03\text{cm}^2$ , radius 14.5cm and slant height is 19cm.  
12.28cm
- 9) Find the surface area of a cone having the radius of the base as 11m and the height of the cone is 13m?  
 $968.63 \approx 969 \text{ m}^2$
- 10) Find the height of a cone having the radius of the base as 7cm and the surface area of a cone is  $417\text{cm}^2$ ?  
 $9.7 \approx 10 \text{ cm}$