

Volume of Cylinders

Find the volume using the indicated value for π .

1. exact value
 $960\pi \text{ m}^3$
2. $\pi = 3.14$
 18.84 in^3
3. $\pi = \frac{22}{7}$
 150.72 ft^3
4. $\pi = \frac{22}{7}$
 $160\pi \text{ in}^3$
5. $\pi = \frac{22}{7}$
 2376 cm^3
6. exact value
 $45\pi \text{ in}^3$
7. $\pi = \frac{22}{7}$
 352 cm^3
8. $\pi = 3.14$
 113.04 mm^3
9. exact value
 339.12 ft^3
10. $\pi = 3.14$
 616 m^3
11. radius = 4.9 mm; height = 2.1 mm; $\pi = \frac{22}{7}$
 158.466 mm^3
12. diameter = 1.4 m; height = 5 m; $\pi = 3.14$
 7.693 m^3

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Geometry IF8763

Area of a Circle

Find the area of each circle using the indicated value for π .

1. exact value
 $\pi \text{ m}^2$
2. $\pi = \frac{22}{7}$
 1386 cm^2
3. $\pi = \frac{22}{7}$
 3850 in^2
4. $\pi = 3.14$
 7850 ft^2
5. $\pi = 3.14$
 1256 mm^2
6. exact value
 $6.25\pi \text{ in}^2$

Find the total area of each figure.

7. $\pi = \frac{22}{7}$
 181.44 units^2
8. $\pi = 3.14$
 157 units^2
9. exact value
 24 units^2
10. $\pi = 3.14$
 158125 units^2
11. $\pi = 3.14$
 22.28 units^2
12. exact value
 $94\pi \text{ units}^2$

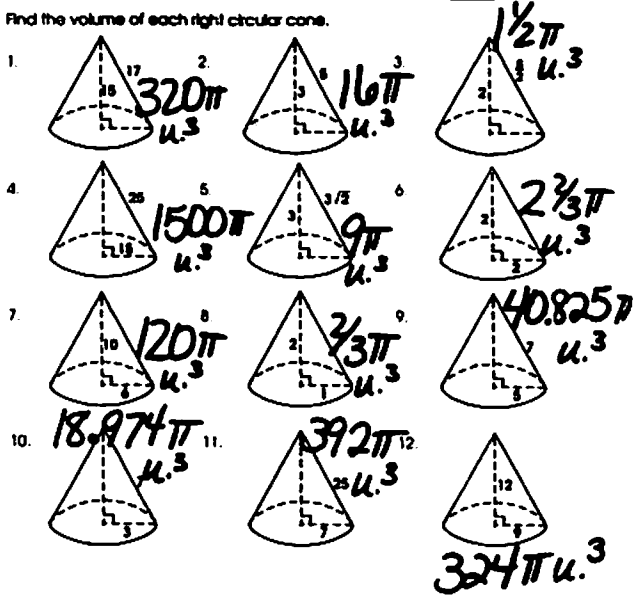
Find the area of the shaded region.

13. $\pi = 3.14$
 106.865 units^2
14. exact value
 $56\pi \text{ units}^2$
15. $\pi = 3.14$
 54.5 units^2

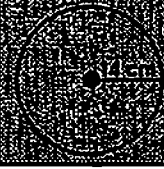
Area

Right Circular Cones

Find the volume of each right circular cone.

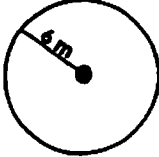
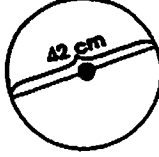
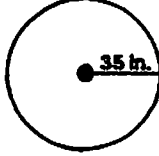
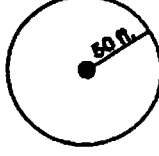
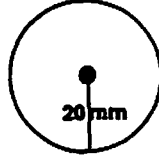
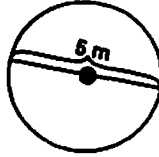


Area of a Circle

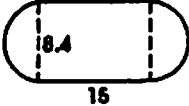
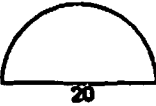
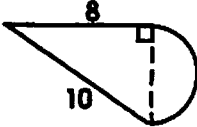
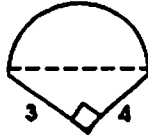
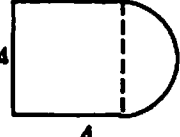
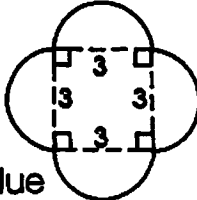


$A = \pi r^2$ (radius)
 $A = \pi (4)^2 = 50.24$
 $A = 100.48 \text{ cm}^2$ $A = 6.6 \text{ cm}^2$ $A = 616.44 \text{ cm}^2$

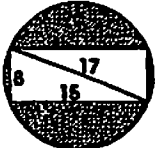
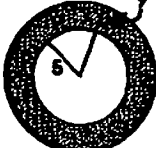
Find the area of each circle using the indicated value for pi.

- | | | |
|---|----------------------|--|
| 1.  | exact value | 2.  $\pi = \frac{22}{7}$ |
| 3.  | $\pi = \frac{22}{7}$ | 4.  $\pi = 3.14$ |
| 5.  | $\pi = 3.14$ | 6.  exact value |

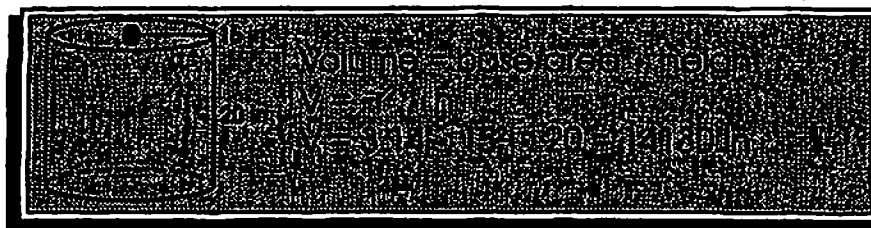
Find the total area of each figure.

- | | | |
|---|--|---|
| 7.  $\pi = \frac{22}{7}$ | 8.  $\pi = 3.14$ | 9.  exact value |
| 10.  $\pi = 3.14$ | 11.  $\pi = 3.14$ | 12.  exact value |

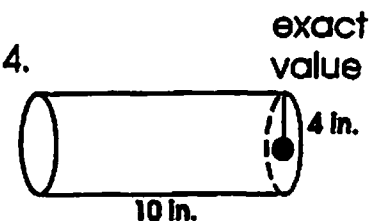
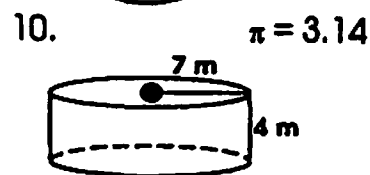
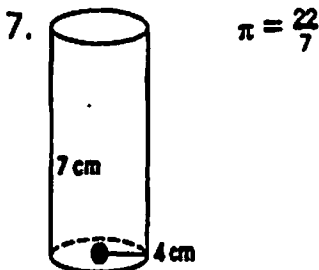
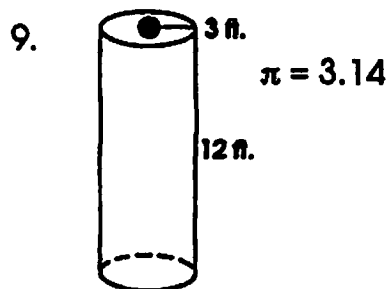
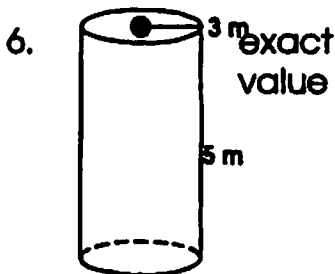
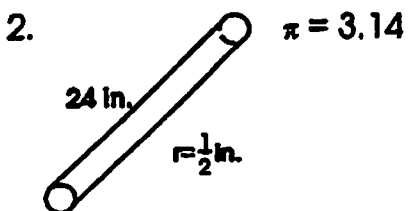
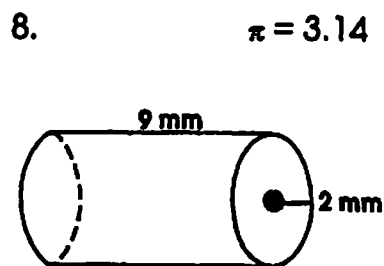
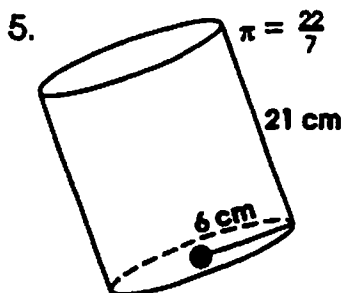
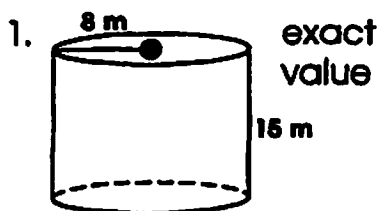
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- | | | |
|--|---|--|
| 13.  $\pi = 3.14$ | 14.  exact value | 15.  $\pi = 3.14$ |
|--|---|--|

Volume of Cylinders



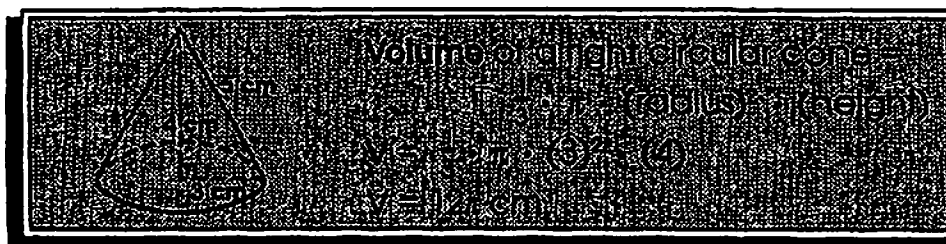
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Right Circular Cones



Find the volume of each right circular cone.

