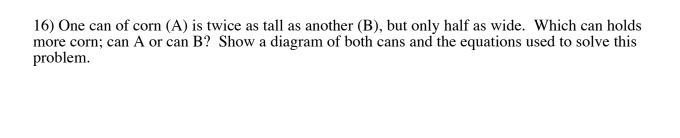
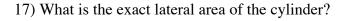
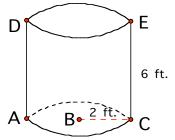
Chapter 9: Area and Volume Lesson 9-3: Cylinders and Cones	name date period
Homework	
Answer the following. Use 3.14 for π and round your answers to the nearest integer.	
1) In a cylinder, if the diameter is 6 cm. and the hei	ght is 8 cm., then the volume is
2) In a cylinder, if the diameter is 8 cm. and the hei	ght is 4 cm., then the volume is
3) In a cylinder, if the radius is 16 cm. and the height is 6 cm., then the volume is	
4) In a cylinder, if the radius is 2 cm. and the height	t is 6 cm., then the volume is
5) In a cylinder, if the area of the base is 15π cm ² a	nd the height is 4 cm., then the volume is
6) In a cylinder, if the volume is 628 cm ³ and the ra	adius is 10 cm, then the height is
7) In a cylinder, if the volume is 64π cm ³ and the ra	adius is 2 cm, then the height is
8) In a cylinder, if the volume is 48π cm ³ and the d	iameter is 8 cm, then the height is
9) In a cylinder, if the volume is 314 cm ³ and the d	iameter is 10 cm, then the height is
10) In a cylinder, if the lateral area is $16\pi\ cm^3$ and	the radius is 10 cm, then the height is
11) In a cylinder, if the radius is 10 mm. and the he	ight is 3 mm., then the total surface area is
12) In a cylinder, if the radius is 2 in. and the heigh	t is 6 in., then the total surface area is
13) In a cylinder, if the diameter is 10 mm. and the	height is 5 mm., then the total surface area is _
14) In a cylinder, if the diameter is 8 cm. and the he	eight is 3 cm., then the total surface area is
15) In a cylinder, if the area of the base is $36\pi~\text{cm}^2$ area is	and the height is 3 cm., then the total surface







18) What is the exact area of the base of the cylinder above?

- 19) If the volume of a cone is 400π in. and height is 8 in., what is the exact area of the base?
- 20) For problem #19, find the radius of the base.
- 21) For a cone, if the raduis is 6 cm. and the slant height is 12 cm, then the exact lateral area is ____
- 22) For a cone, if the diameter is 10 in and the slant height is 8 cm, then the exact lateral area is
- 23) For a cone, if the height is 5 mm. and the radius is 3mm, then the exact volume is ____.
- 24) For a cone, if the height is 8 cm. and the diameter is 8 cm, then the exact volume is ____.
- 25) For a cone, if the radius is 4 in and the slant height is 10 in, then the exact total surface area is