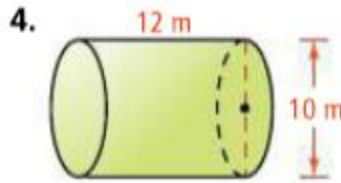
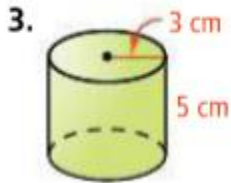


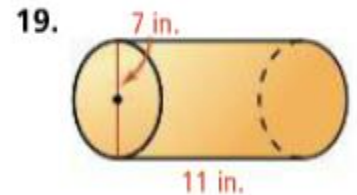
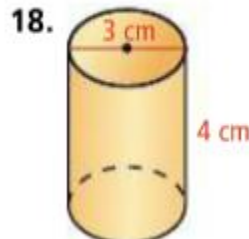
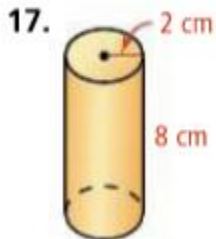
Day 14 HW

{p. 704 #3-4, 17-23 odd

What is the surface area of each cylinder?



Find the surface area of each cylinder in terms of π .



21. A triangular prism has base edges 4 cm, 5 cm, and 6 cm long. Its lateral area is 300 cm^2 . What is the height of the prism?

22. **Writing** Explain how a cylinder and a prism are alike and how they are different.

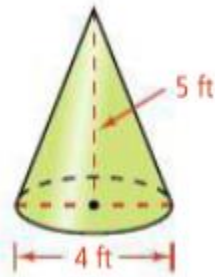
23. **Pencils** A hexagonal pencil is a regular hexagonal prism, as shown at the right. A base edge of the pencil has a length of 4 mm. The pencil (without eraser) has a height of 170 mm. What is the area of the surface of the pencil that gets painted?



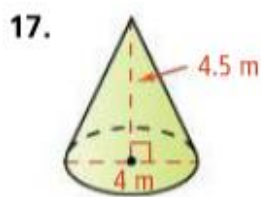
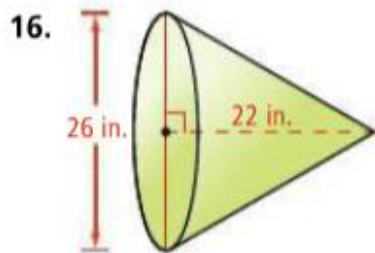
p. 712 #3-4, 16-20 even

Use the diagram of the cone at the right.

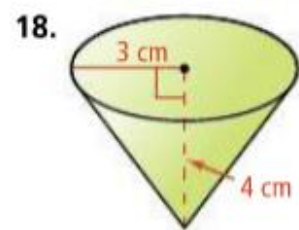
- 3. What is the lateral area of the cone?
- 4. What is the surface area of the cone?



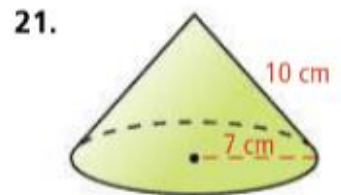
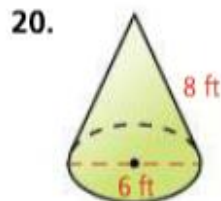
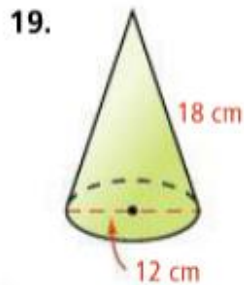
Find the lateral area of each cone to the nearest whole number.



See Problems 3 a



Find the surface area of each cone in terms of π .



p. 737 #6-14 even }

Find the surface area of the sphere with the given diameter or radius.

◀ See F

Leave your answer in terms of π .

6. $d = 30$ m

7. $r = 10$ in.

8. $d = 32$ mm

9. $r = 100$ yd

Sports Find the surface area of each ball. Leave each answer in terms of π .

10.



$d = 68$ mm

11.



$d = 21$ cm

12.



$d = 2\frac{1}{16}$ in.

Use the given circumference to find the surface area of each spherical object.

◀ See F

Round your answer to the nearest whole number.

13. a grapefruit with $C = 14$ cm

14. a bowling ball with $C = 27$ in.