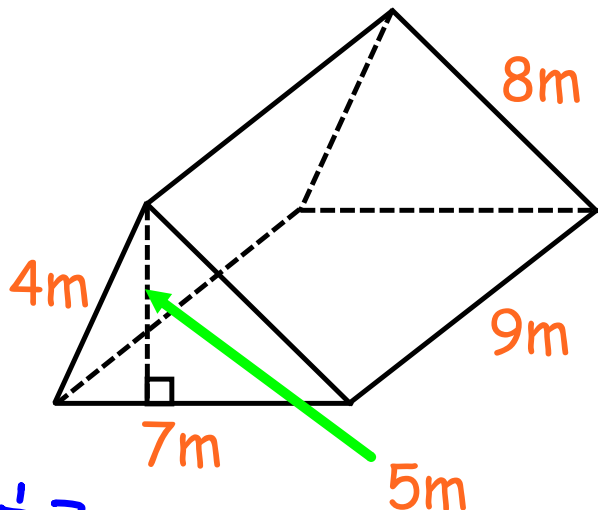


HW: Worksheet/3, 4, 10, 16

**Warm up:**

1) Find the surface area.



$$\frac{1}{2} \cdot 7 \cdot 5 = 17.5$$

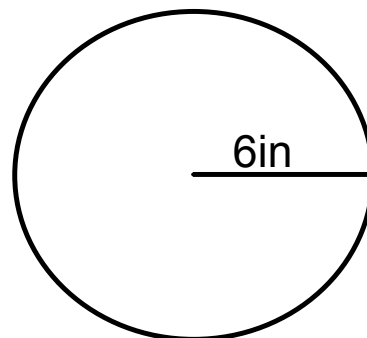
$$9 \cdot 8 = 72$$

$$9 \cdot 4 = 36$$

$$7 \cdot 9 = \underline{63}$$

$206\text{m}^2$

2) Find the area.

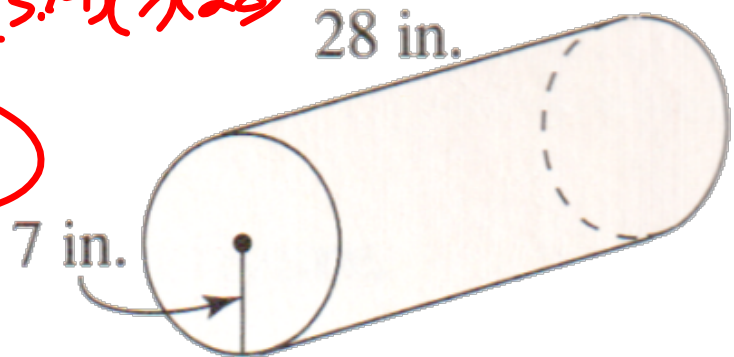


$$3.14(6)^2$$

$113.04\text{in}^2$

$$2(3.14)(7)^2 + 2(3.14)(7)(28)$$

$$1538.6 \text{ in}^2$$

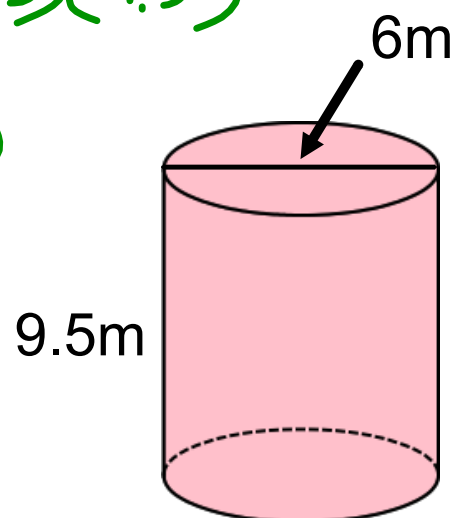


$$S.A.(cylinder) = 2\pi r^2 + 2\pi rh$$

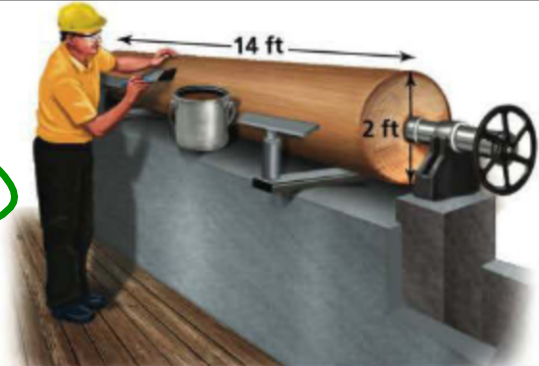
Find the surface area.

$$2(3.14)(3)^2 + 2(3.14)(3)(9.5)$$

$$235.5 \text{ m}^2$$



A contractor builds porch columns that are painted on all surfaces with a protective sealant. If the contractor has enough sealant to cover 150 square feet, can he seal all of the surfaces of one column? Explain.



$$2(3.14)(1)^2 + 2(3.14)(1)(14)$$

$$94.2 \text{ ft}^2$$

yes

## HW Solutions

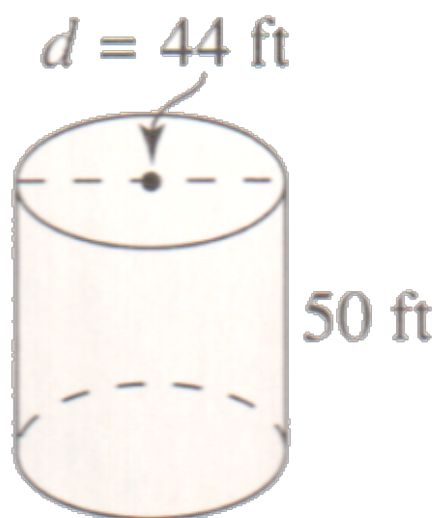
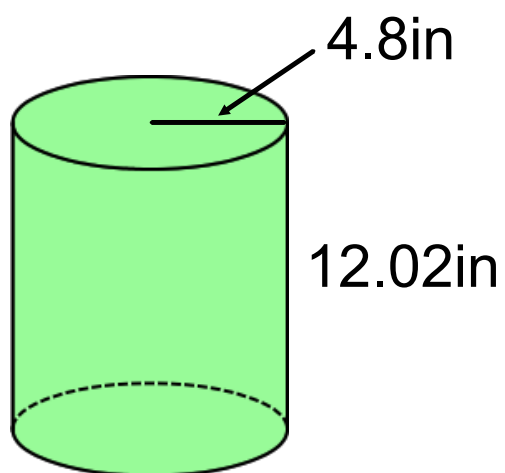
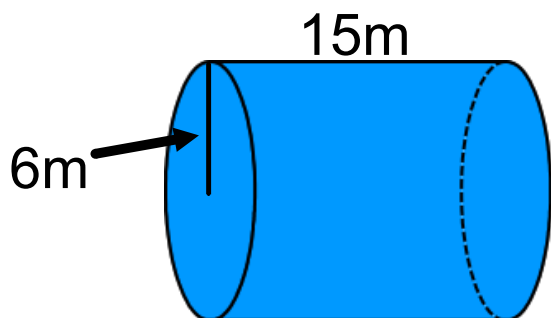
(11)

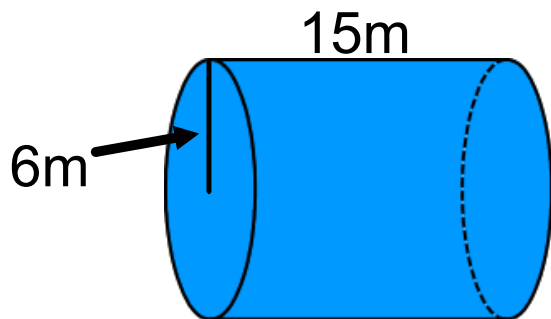


$$\pi r l + \pi r^2$$
$$3.14(4)(11) + 3.14(4)^2$$

$$188.4$$

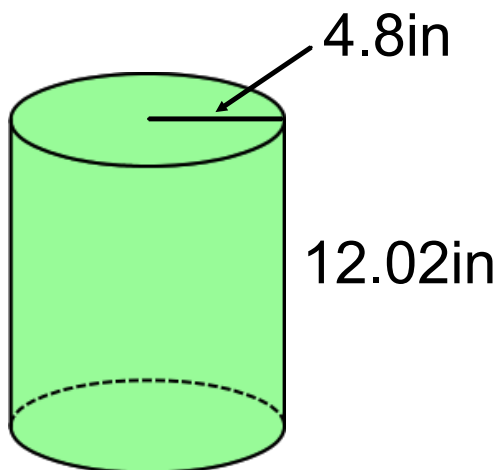
$$188 \text{ ft}^2$$





$$2(3.14)(6)^2 + 2(3.14)(6)(15)$$

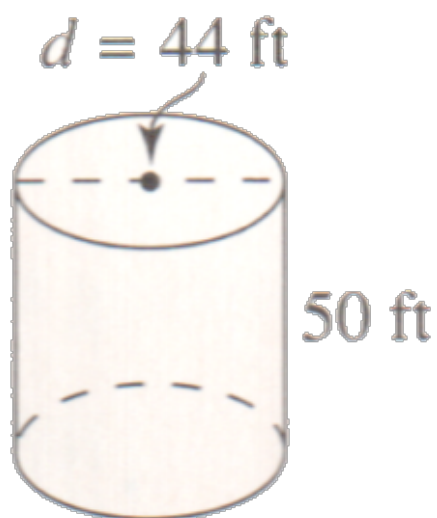
$$791.28\text{m}^2$$



$$2(3.14)(4.8)^2 + 2(3.14)(4.8)(12.02)$$

507.02 in<sup>2</sup>





$$2(3.14)(22)^2 + 2(3.14)(22)(50)$$

$9947.52 \text{ ft}^2$

