

HW: Worksheet/3, 4, 10, 16

Warm up:

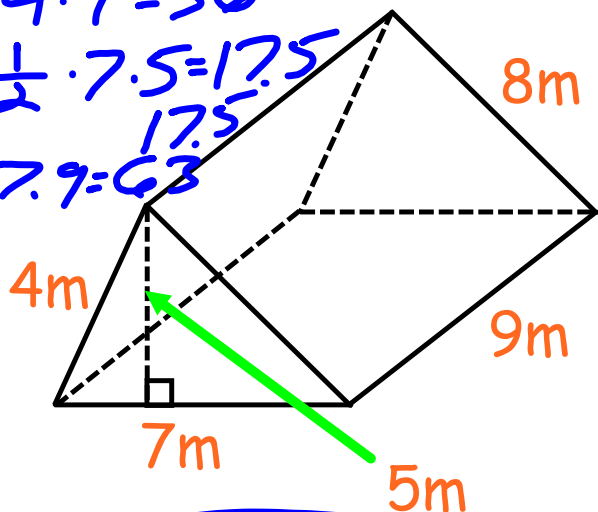
1) Find the surface area.

$$9 \cdot 8 = 72$$

$$4 \cdot 9 = 36$$

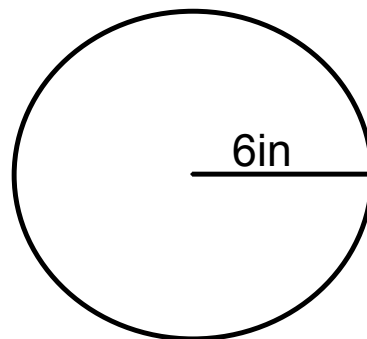
$$\frac{1}{2} \cdot 7.5 = 17.5$$

$$7 \cdot 9 = 63$$



$$206 \text{ m}^2$$

2) Find the area.

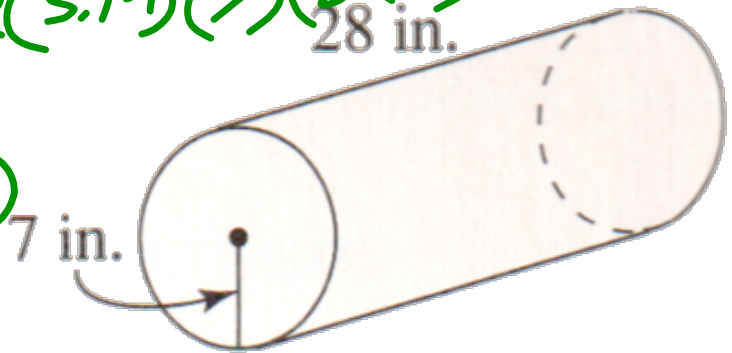


$$3.14(6)^2$$

$$113.04 \text{ in}^2$$

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

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

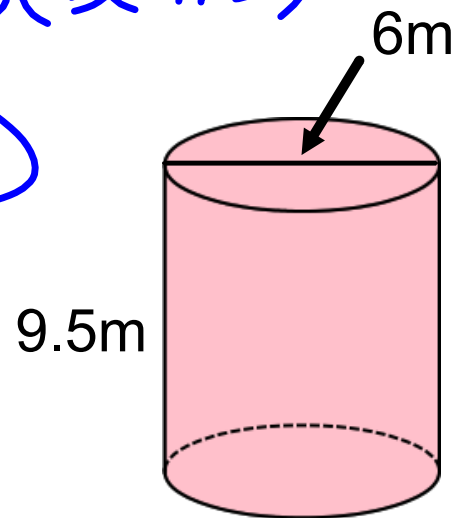


$$S.A.(\text{cylinder}) = 2\pi r^2 + 2\pi rh$$

Find the surface area.

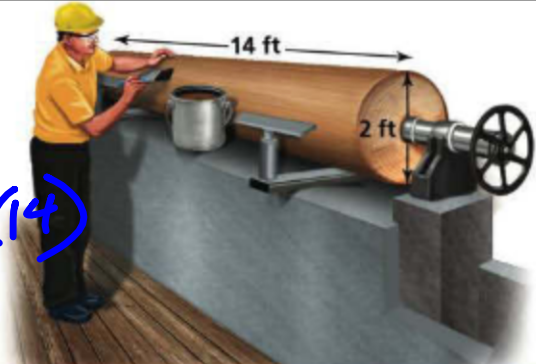
$$2(3.14)(3)^2 + 2(3.14)(3)(9.5)$$

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



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.

$$2(3.14)(1)^2 + 2(3.14)(1)(14)$$
$$94.2 \text{ ft}^2$$



HW Solutions

⑬



$$\pi r l + \pi r^2$$

$$3.14(3.5)(7.5) + 3.14(3.5)^2$$

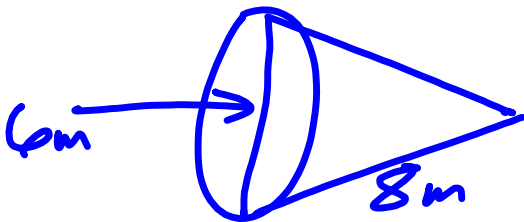
120.89

121 in²

⑭

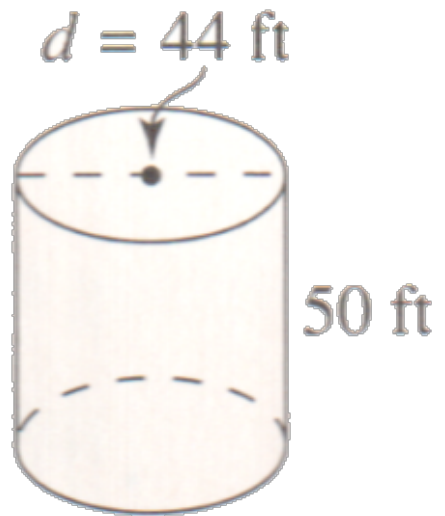
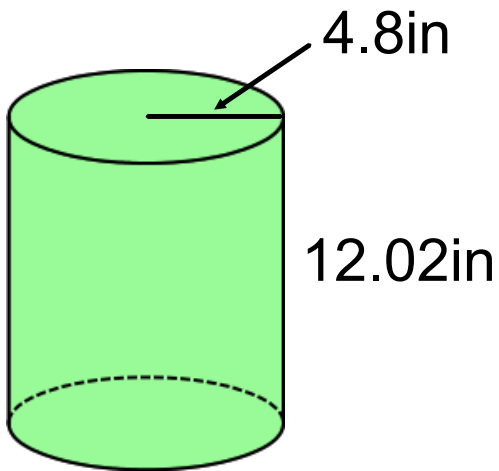
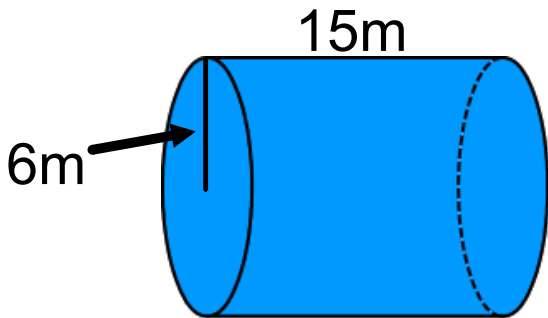
$$3.14(4)(11) + 3.14(4)^2$$

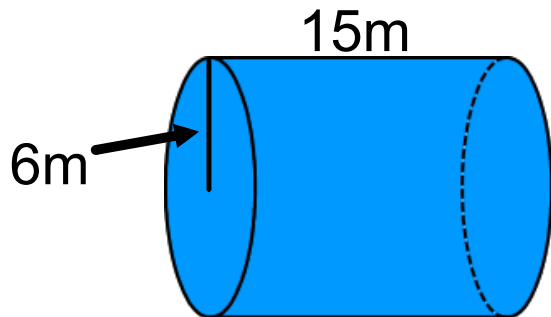
$$188 \text{ ft}^2$$



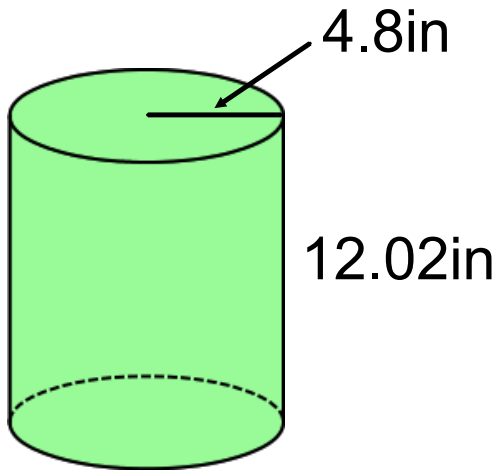
$$3.14(3)(8) + 3.14(3)^2$$

$$104\text{m}^2$$



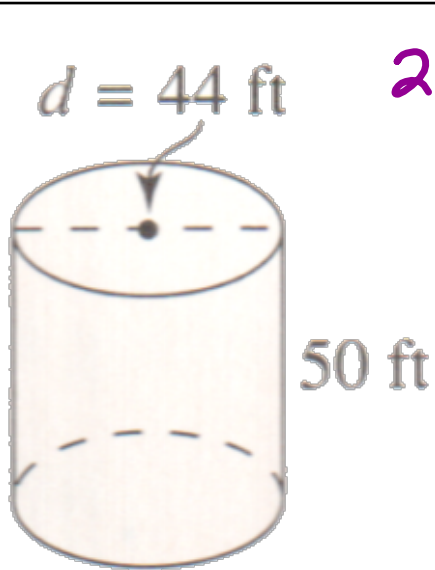


$$2(3.14)(6)^2 + 2(3.14)(6)(15)$$
$$791.28 \text{ m}^2$$



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

$$507.02 \text{ in}^2$$



$$2(3.14)(22)^2 + 2(3.14)(22)(50)$$
$$9947.52 \text{ ft}^2$$

