

ANSWER PRESENTATION TOOL

Blue - Student Edition

8

1 - Exercise

1-2, 6-11, 13

ALL EVEN

Show Solutions

ODD

- 1.** How much does it take to cover the cylinder?; $170\pi \approx 534.1$ cm^2 ;
 $300\pi \approx 942.5$ cm^3

- 2.** The cube has a greater volume because the cylinder could fit inside the cube and there is still room in the corners of the cube that are not in the cylinder.

6. $250\pi \approx 785.4$ ft^3

7. $90\pi \approx 282.7$ mm^3

8. $4\pi \approx 12.6$ ft^3

9. $252\pi \approx 791.7$ in.^3

10. $\frac{1125}{4}\pi \approx 883.6$ m^3

11. $256\pi \approx 804.2$ cm^3

13. $\frac{125}{8\pi} \approx 5$ ft

15. $\sqrt{\frac{150,000}{19\pi}} \approx 50 \text{ cm}$

17. Volume of a “round” bale:

The diameter is 4 feet, so the radius is 2 feet.

$$V = Bh = \pi(2)^2(5) = 20\pi \approx 62.8 \text{ ft}^3$$

Volume of a “square” bale:

$$V = \ell wh = (2)(2)(4) = 16 \text{ ft}^3$$

Because $62.8 \div 16 = 3.925$, about 4 “square” bales contain the same amount of hay as one “round” bale.

18. about 4712 lb