

Sore Dancers

1. 30

2. 73

3. 338.9

4. 65.2

5. 2093.8

6. 0.004

7. 28251.4

8. 13761987.2

Notes May 1

Jimmy wants to fill a large cylinder with ketchup. The cylinder has a diameter of 3^{ft} and a height of 3 yards.

He uses bottles that each hold 0.25 cubic feet of ketchup and cost \$2.79. How much will it cost to fill the cylinder?

Volume Question - filling space,
 $r = 1.5 \text{ ft}$ $h = 9 \text{ ft}$



$$V = \pi \cdot 1.5^2 \cdot 9$$

$$V = 63.6 \text{ ft}^3$$

$$63.6 \div 0.25 = 254.4 \text{ bottles}$$

255 bottles needed

$$255 \times 2.79$$

$$= \$711.45$$