

Unit 1: Square Roots and Surface Area

$$\textcircled{1} \quad \sqrt{\frac{18}{32}} = \sqrt{\frac{9}{16}} = \frac{3}{4}$$

Estimate, using benchmarks

$$\textcircled{2} \quad \sqrt{\frac{3}{10}} = \sqrt{\frac{4}{100}} = \frac{2}{10} = \frac{1}{5}$$

∴ means therefore

$$\textcircled{3} \quad \sqrt{\frac{3}{10}} = \frac{1}{5}$$

Estimate using benchmarks.

$$\sqrt{0.20} = 0.44$$

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④ Find a # that has a square root

between 1.5 and 1.6.

Working backwards question: inverse of
Square root is squaring

$$(1.5)^2 = 2.25$$

$$(1.6)^2 = 2.56$$

Answer: Any # between 2.25 and 2.56
but not including these #'s.

2.26, 2.27, . . . , 2.54, 2.55

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$$\textcircled{5} \quad \text{Side Length of Square} = \sqrt{\text{Area}}$$

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Surface Area of Composite Objects.

Note: Find the total surface area of all objects and subtract two times the overlapping region.

$$SA_{\text{cylinder}} = [2\pi r^2] + [2\pi rh] \quad * \text{The only given formula} *$$

$$SA_{\text{rectangular prism}} = [2 \cdot L \cdot W] + [2 \cdot L \cdot H] + [2 \cdot W \cdot H]$$

$$SA_{\text{triangular prism}} = \left[2 \times \frac{\text{Area of Triangle}}{\frac{bh}{2}} \right] + \left[\frac{\text{Area of Side 1}}{L \cdot W} \right] + \left[\frac{\text{Area of Side 2}}{L \cdot W} \right] + \left[\frac{\text{Area of Side 3}}{L \cdot W} \right]$$

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