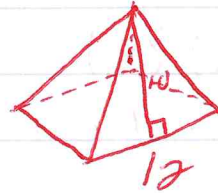


$$4) LA = \frac{1}{2} (48)(10) \\ = 240 \text{ ft}^2$$

$$SA = 240 + 12^2 \\ = 384 \text{ ft}^2$$

$$V = \frac{1}{3} (144)(8) \\ = 384 \text{ ft}^3$$



$$5) V = \frac{4}{3} \pi r^3 \\ \frac{500\pi}{3} = \frac{4}{3} \pi r^3 \left(\frac{3}{4}\right) \\ 125 = r^3 \\ 5\text{m} = r$$

$$SA = 4\pi(5)^2 \\ = 100\pi \text{ m}^2$$

$$6) \frac{75}{300} = \frac{3}{12} = \frac{1}{4} \quad \sqrt{\frac{1}{4}} = \frac{1}{2}$$

$$a) 1:2$$

$$b) 1:8$$