

Lateral Area, Surface Area, & Volume Worksheet

1. $LA = 144 + 48\sqrt{5} \text{ ft}^2$
 $SA = 216 + 48\sqrt{5} \text{ ft}^2 \approx 323.33 \text{ ft}^2$
 $V = 288 \text{ ft}^3$
2. $LA = 144\sqrt{10} \text{ ft}^2$
 $SA = 144 + 144\sqrt{10} \text{ ft}^2 \approx 599.37 \text{ ft}^2$
 $V = 864 \text{ ft}^3$
3. $LA = 252 \text{ in}^2$
 $SA = 276 \text{ in}^2$
 $V = 216 \text{ in}^3$
4. $LA = 88\pi \text{ m}^2$
 $SA = 120\pi \text{ m}^2 \approx 376.99 \text{ m}^2$
 $V = 176\pi \text{ m}^3 \approx 552.92 \text{ m}^3$
5. $LA = 90 \text{ cm}^2$
 $SA = 50\sqrt{3} + 90 \text{ cm}^2 \approx 176.60 \text{ cm}^2$
 $V = 75\sqrt{3} \text{ cm}^3 \approx 129.90 \text{ cm}^3$
6. $LA = 8\sqrt{29}\pi \text{ in}^2$
 $SA = 16\pi + 8\sqrt{29}\pi \text{ cm}^2 \approx 185.61 \text{ in}^2$
 $V = \frac{160\pi}{3} \text{ in}^3 \approx 167.55 \text{ in}^3$
7. $LA = 252 \text{ cm}^2$
 $SA = 49\sqrt{3} + 252 \text{ cm}^2 \approx 336.87 \text{ cm}^2$
8. $LA = 448 \text{ ft}^2$
 $SA = 704 \text{ ft}^2$
 $V = \frac{512\sqrt{33}}{3} \text{ ft}^3 \approx 980.41 \text{ ft}^3$
9. $V = 32\sqrt{3} \text{ ft}^3 \approx 55.43 \text{ ft}^3$