

$$1. LA = \frac{1}{2}(P)(l)$$

$$= \frac{1}{2}(20)(6)$$

$$= 60m^2$$

$$2. SA = B + \frac{1}{2}(P)(l)$$

$$= 25 + 60$$

$$= 85m^2$$

$$3. \pi r l$$

$$\pi(2)(\sqrt{29})$$

$$= 2\sqrt{29} \pi ft^2$$

$$\approx 33.8 ft^2$$

$$4. \pi r^2 + \pi r l$$

$$= \pi(2)^2 + 2\sqrt{29} \pi$$

$$= 4\pi + 2\sqrt{29} \pi$$

$$\approx 46.4 ft^2$$

$$9. SA = B + \frac{1}{2} P l$$

$$= 12(12) + \frac{1}{2}(48)(11)$$

$$= 144 + 264$$

$$= 408 in^2$$

$$10. SA = B + \frac{1}{2} P l$$

$$= \frac{1}{2}(2\sqrt{3})(24) + \frac{1}{2}(24)(8)$$

$$= (24\sqrt{3} + 96)m^2$$


$$= 137.57 m^2 \approx 138 m^2$$

$$9^2 + (8\sqrt{3})^2 = l^2$$

$$12. LA = \frac{1}{2} P l$$

$$= \frac{1}{2}(48)(6\sqrt{2})$$

$$= 144\sqrt{2}$$

$$\approx 203.6 m^2$$


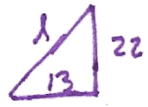
$$13. LA = \frac{1}{2}(60)(\sqrt{139})$$

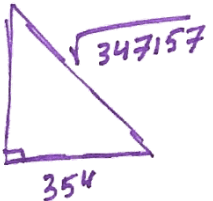
$$= 30\sqrt{139}$$

$$\approx 353.69 cm^2$$

$$16. LA = \pi r l$$

$$= \pi(13)(\sqrt{653})$$

$$= 1043.64 in^2$$


$$15.$$


$$LA = \frac{1}{2}(2832)(\sqrt{347157})$$

$$= 834307.63 ft^2$$

$$21. SA = \pi(7)^2 + \pi(7)(10)$$

$$= 49\pi + 70\pi$$

$$= 119\pi cm^2$$

$$23. \pi r l = 4.8\pi$$

$$1.2 \pi l = 4.8\pi$$

$$l = 4 in$$

$$27. \pi r^2 + 2\pi r h + \pi r l$$

$$= \pi(5)^2 + 2\pi(5)(6) + \pi(5)(13)$$

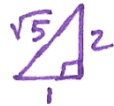
$$= 25\pi + 60\pi + 65\pi$$

$$= 150\pi \approx 471.24 ft^2$$

$$5^2 + 12^2 = 13^2$$

28, 44, 51

$$28. \quad 2(2) + 2(4)(4) + \frac{1}{2}(8)(\sqrt{5})$$
$$4 + 32 + 4\sqrt{5}$$
$$36 + 4\sqrt{5}$$
$$\approx 44.94 \text{ m}^2$$



$$44. \quad SA = \pi r^2 + \pi r l$$
$$= \pi (13.5)^2 + \pi (13.5)(19)$$
$$= 182.25\pi + 256.5\pi$$
$$= 438.75\pi$$
$$= 1378.37 \text{ m}^2$$

$$51. \quad 195 = \frac{1}{2}(15)(d_2)$$

$$195 = 7.5 d_2$$

$$d_2 = 26 \text{ in.}$$