

$$1) 6^2 + 15^2 = \ell^2$$

$$\ell = 16.2 \text{ cm}$$

$$2) 5^2 + 18^2 = \ell^2$$

$$\ell = 18.7 \text{ m}$$

$$3) 12 + 8^2 = \ell^2$$

$$\ell = 8.1 \text{ ft}$$

$$4) SA = B + \frac{1}{2} P \ell$$

$$= (4.2)^2 + \frac{1}{2} (16.8)(10.2)$$

$$= 103.32 \text{ cm}^2$$

$$5) = \frac{1}{4} (15)^2 \sqrt{3} + \frac{1}{2} (45)(9)$$

$$= 97.4 + 202.5$$

$$= 299.9 \text{ cm}^2$$

$$6) = \left[\frac{1}{2} (6)(3\sqrt{3}) \right] 6 + \frac{1}{2} (36)(16)$$

$$= 93.5 + 208.8$$

$$= 302.3 \text{ cm}^2$$

$$7) SA = \pi r^2 + \pi r \ell$$

$$= \pi (12)^2 + \pi (12)(20)$$

$$= 144\pi + 240\pi$$

$$= 384\pi \text{ m}^2$$

$$8) = \pi (4.5)^2 + \pi (4.5)(15.2)$$

$$= 20.25\pi + 68.4\pi$$

$$= 88.65\pi \text{ in}^2$$

$$9) = \pi (6.5)^2 + \pi (6.5)(13)$$

$$= 42.25\pi + 84.5\pi$$

$$= 126.75\pi \text{ cm}^2$$

$$10) = 10^2 + \frac{1}{2} (40)(7.8)$$

$$= 256 \text{ cm}^2$$

$$11) = \pi (7)^2 + \pi (7)(11)$$

$$= 49\pi + 77\pi$$

$$= 395.8 \text{ cm}^2$$

$$12) = B + Ph + \frac{1}{2} P \ell$$

$$= 9 + 12(3) + \frac{1}{2} (12)(5)$$

$$= 75 \text{ ft}^2$$

$$13) = \pi r^2 + 2\pi r h + \pi r \ell$$

$$= \pi (3)^2 + 2\pi (3)(5.1) + \pi (3)(6.4)$$

$$= 9\pi + 30.6\pi + 25.2\pi$$

$$= 64.8\pi$$

$$= 203.6 \text{ cm}^2$$

$$14) = B + Ph + \frac{1}{2} P \ell$$

$$= \left[\frac{1}{4} (3)^2 \sqrt{3} \right] 6 + 18(12) + \frac{1}{2} (18)(5.6)$$

$$= 23.4 + 216 + 50.4$$

$$= 289.8 \text{ m}^2$$