

WORKSHEET 12.2

$$\begin{aligned} \textcircled{1} \text{ Front + Back} & 9 \times 9 \times 2 = 162 \text{ cm}^2 \\ \text{Sides} & 9 \times 12 \times 2 = 216 \text{ cm}^2 \\ \text{Top + Bottom} & 9 \times 12 \times 2 = 216 \text{ cm}^2 \\ & \underline{\underline{594 \text{ cm}^2}} \end{aligned}$$

$$\begin{aligned} \textcircled{2} \text{ Front + Back} & 13 \times 5 \times 2 = 130 \text{ m}^2 \\ \text{Sides} & 8 \times 5 \times 2 = 80 \text{ m}^2 \\ \text{Top + Bottom} & 13 \times 8 \times 2 = 208 \text{ m}^2 \\ & \underline{\underline{418 \text{ m}^2}} \end{aligned}$$

$$\begin{aligned} \textcircled{3} \text{ Front + Back} & 42 \times 11 \times 2 = 924 \text{ ft}^2 \\ \text{Sides} & 21 \times 11 \times 2 = 462 \text{ ft}^2 \\ \text{Top + Bottom} & 21 \times 42 \times 2 = 1764 \text{ ft}^2 \\ & \underline{\underline{3150 \text{ ft}^2}} \end{aligned}$$

$$\begin{aligned} \textcircled{4} \text{ Front + Back} & 6.5 \times 5 \times 2 = 65 \text{ mm}^2 \\ \text{Sides} & 4 \times 5 \times 2 = 40 \text{ mm}^2 \\ \text{Top + Bottom} & 6.5 \times 4 \times 2 = 52 \text{ mm}^2 \\ & \underline{\underline{157 \text{ mm}^2}} \end{aligned}$$

$$\begin{aligned} \textcircled{5} \text{ End Circles} & 3.14 (4^2) \times 2 = 100.48 \\ \text{Middle} & (3.14)(8)(21) = 527.52 \\ & \underline{\underline{628 \text{ ft}^2}} \end{aligned}$$

$$\begin{aligned} \textcircled{6} \text{ End Circles} & 3.14 (7.5)^2 \times 2 = 353.25 \\ \text{Middle} & 3.14 (15)(8) = 376.8 \\ & \underline{\underline{730.05}} \\ & \underline{\underline{730 \text{ cm}^2}} \end{aligned}$$

$$\begin{aligned} \textcircled{7} \text{ End Circles} & 3.14 (1.5^2) \times 2 = 14.13 \text{ in}^2 \\ \text{Middle} & 3.14 (3)(10) = 94.2 \\ & \underline{\underline{108.33 \text{ in}^2}} \\ & \underline{\underline{108 \text{ in}^2}} \end{aligned}$$

$$\begin{aligned} \textcircled{8} \text{ End Circles} & 3.14 (2^2) \times 2 = 25.12 \text{ m}^2 \\ \text{Middle} & 3.14 (4)(9) = 113.04 \\ & \underline{\underline{138.16}} \\ & \underline{\underline{138 \text{ m}^2}} \end{aligned}$$

