

Study Guide

① $d = 136 \text{ km}$
 $r = 68 \text{ km}$

(A)

② $d = 24 \text{ km}$
 $r = 12 \text{ km}$

(C)

③ $r = 25 \text{ m}$
 $d = 50 \text{ m}$

(C)

④ $r = 83 \text{ m}$
 $d = 166 \text{ m}$

(A)

⑤ $C = \pi d$
 $C = 3.14 \cdot 8$
 $C = 25.12 \text{ ft}$

(B)

⑥ $C = \pi d$
 $C = 3.14 \cdot 18$
 $C = 56.52 \text{ in}$

(C)

⑦ $A = \pi r^2$
 $A = 3.14 \cdot 10^2$
 $A = 314 \text{ yd}$

(D)

⑧ $A = \pi r^2$ $d = 6; r = 3$
 $A = 3.14 \cdot 3^2$
 $A = 28.26 \text{ ft}^2$

(A)

⑨ $V = lwh$
 $V = 3 \cdot 3 \cdot 9$
 $V = 81 \text{ m}^3$

(B)

⑩ $V = \frac{1}{3} \pi r^2 h$ $d = 12; r = 6$
 $V = \frac{1}{3} \cdot 3.14 \cdot 6^2 \cdot 12$
 $V = 452.16 \text{ cm}^3$

(B)

$$\begin{aligned} \textcircled{11} \quad V &= \pi r^2 h \\ V &= 3.14 \cdot 3^2 \cdot 10 \\ V &= 282.6 \text{ yd}^3 \\ &\textcircled{A} \end{aligned}$$

$$\begin{aligned} \textcircled{12} \quad V &= lwh \\ V &= 6 \cdot 8 \cdot 9 \\ V &= 432 \text{ cm}^3 \\ &\textcircled{A} \end{aligned}$$

$$\begin{aligned} \textcircled{13} \quad V &= lwh \\ V &= 9 \cdot 11 \cdot 9 \\ V &= 891 \text{ in}^3 \\ &\textcircled{A} \end{aligned}$$

$$\begin{aligned} \textcircled{14} \quad V &= \pi r^2 h \quad d=12; r=6 \\ V &= 3.14 \cdot 6^2 \cdot 11 \\ V &= 1243.44 \text{ m}^3 \\ &\textcircled{C} \end{aligned}$$

$$\begin{aligned} \textcircled{15} \quad V &= \frac{4}{3} \pi r^3 \\ V &= \frac{4}{3} \cdot 3.14 \cdot 11.2^3 \\ V &= 5882 \\ &\textcircled{A} \end{aligned}$$

$$\begin{aligned} \textcircled{16} \quad V &= lwh \\ V &= 7 \cdot 4 \cdot 6 \\ V &= 168 \text{ yd}^3 \\ &\textcircled{B} \end{aligned}$$

$$\begin{aligned} \textcircled{17} \quad V &= lwh \\ V &= 7 \cdot 7 \cdot 9 \\ V &= 441 \text{ yd}^3 \\ &\textcircled{A} \end{aligned}$$

$$\begin{aligned} \textcircled{18} \quad V &= \frac{1}{3} \pi r^2 h \\ V &= \frac{1}{3} \cdot 3.14 \cdot 3^2 \cdot 10 \\ V &= 94.2 \text{ m}^3 \\ &\textcircled{C} \end{aligned}$$

$$\begin{aligned} \textcircled{19} \quad V &= \pi r^2 h \\ V &= 3.14 \cdot 4^2 \cdot 6 \\ V &= 301.44 \\ &\textcircled{D} \end{aligned}$$

$$\begin{aligned} \textcircled{20} \quad V &= \frac{1}{3} \pi r^2 h \quad d=12; r=6 \\ V &= \frac{1}{3} \cdot 3.14 \cdot 6^2 \cdot 12 \\ V &= 452.16 \text{ ft}^3 \\ &\textcircled{A} \end{aligned}$$