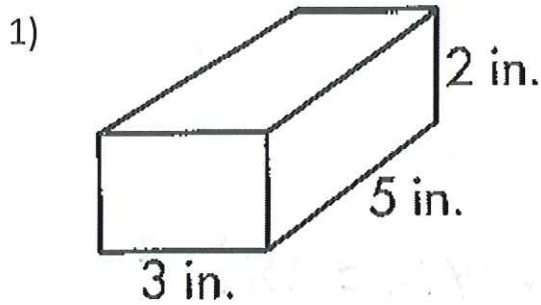


Surface Area of Rectangular Prisms

Name: Key

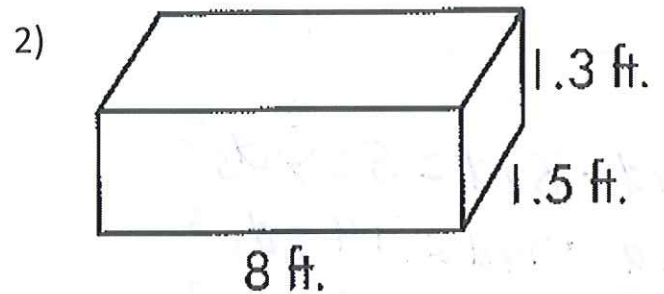
Grade Math

Find the surface area of the following prisms. Show your work and make sure your answers include units.



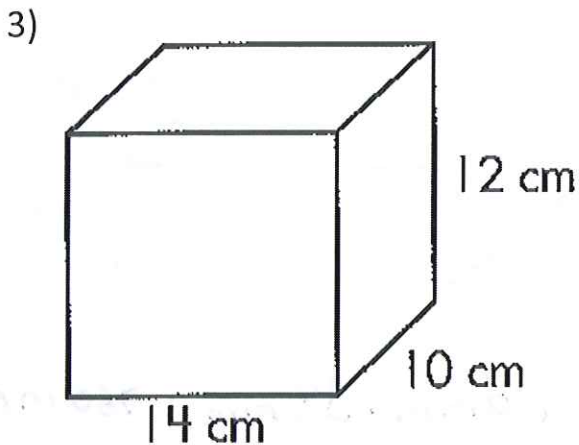
$$\begin{aligned} 3 \text{ in.} \cdot 5 \text{ in.} &= 15 \text{ in}^2 \\ 2 \text{ in.} \cdot 5 \text{ in.} &= 10 \text{ in}^2 \\ 2 \text{ in.} \cdot 3 \text{ in.} &= 6 \text{ in}^2 \\ \hline &31 \text{ in}^2 \end{aligned}$$

$$\text{S.A.} = 62 \text{ in}^2$$



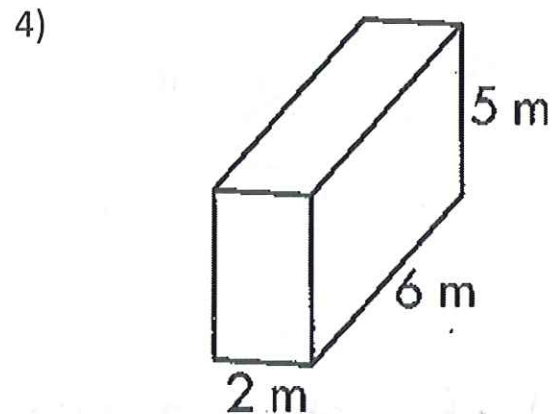
$$\begin{aligned} 1.5 \text{ ft.} \cdot 8 \text{ ft.} &= 12 \text{ ft}^2 \\ 1.3 \text{ ft.} \cdot 1.5 \text{ ft.} &= 1.95 \text{ ft}^2 \\ 1.3 \text{ ft.} \cdot 8 \text{ ft.} &= 10.4 \text{ ft}^2 \\ \hline &24.35 \text{ ft}^2 \end{aligned}$$

$$\text{S.A.} = 48.7 \text{ ft}^2$$



$$\begin{aligned} 10 \text{ cm} \cdot 14 \text{ cm} &= 140 \text{ cm}^2 \\ 10 \text{ cm} \cdot 12 \text{ cm} &= 120 \text{ cm}^2 \\ 12 \text{ cm} \cdot 14 \text{ cm} &= 168 \text{ cm}^2 \\ \hline &428 \text{ cm}^2 \end{aligned}$$

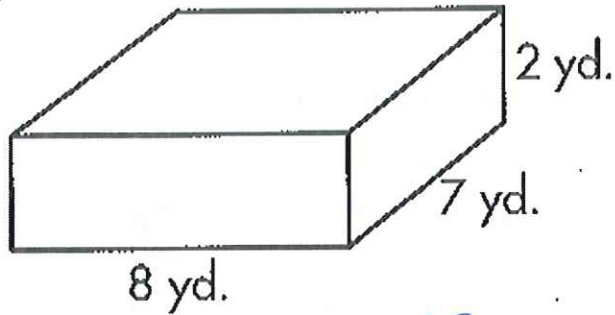
$$\text{S.A.} = 856 \text{ cm}^2$$



$$\begin{aligned} 2 \text{ m} \cdot 6 \text{ m} &= 12 \text{ m}^2 \\ 5 \text{ m} \cdot 6 \text{ m} &= 30 \text{ m}^2 \\ 2 \text{ m} \cdot 5 \text{ m} &= 10 \text{ m}^2 \\ \hline &52 \text{ m}^2 \end{aligned}$$

$$\text{S.A.} = 104 \text{ m}^2$$

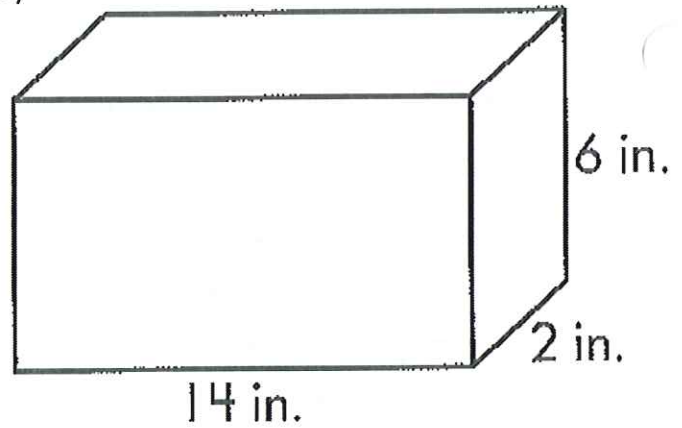
5)



$$\begin{aligned}
 7 \text{ yd} \cdot 8 \text{ yd} &= 56 \text{ yds}^2 \\
 2 \text{ yd} \cdot 7 \text{ yd} &= 14 \text{ yds}^2 \\
 2 \text{ yd} \cdot 8 \text{ yd} &= 16 \text{ yds}^2 \\
 \hline
 &86 \text{ yds}^2
 \end{aligned}$$

$$S.A. = 172 \text{ yds}^2$$

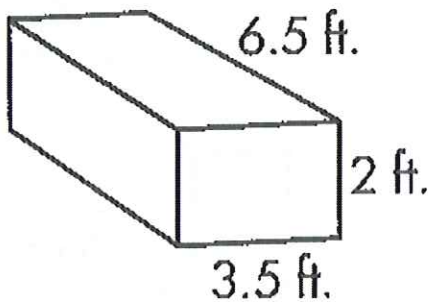
6)



$$\begin{aligned}
 2 \text{ in} \cdot 14 \text{ in} &= 28 \text{ in}^2 \\
 2 \text{ in} \cdot 6 \text{ in} &= 12 \text{ in}^2 \\
 6 \text{ in} \cdot 14 \text{ in} &= 84 \text{ in}^2 \\
 \hline
 &124 \text{ in}^2
 \end{aligned}$$

$$S.A. = 248 \text{ in}^2$$

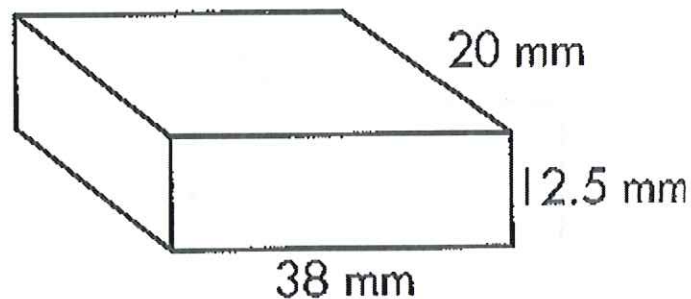
7)



$$\begin{aligned}
 3.5 \text{ ft} \cdot 6.5 \text{ ft} &= 22.75 \text{ ft}^2 \\
 2 \text{ ft} \cdot 6.5 \text{ ft} &= 13 \text{ ft}^2 \\
 2 \text{ ft} \cdot 3.5 \text{ ft} &= 7 \text{ ft}^2 \\
 \hline
 &42.75 \text{ ft}^2
 \end{aligned}$$

$$S.A. = 85.5 \text{ ft}^2$$

8)



$$\begin{aligned}
 20 \text{ mm} \cdot 38 \text{ mm} &= 760 \text{ mm}^2 \\
 12.5 \text{ mm} \cdot 20 \text{ mm} &= 250 \text{ mm}^2 \\
 12.5 \text{ mm} \cdot 38 \text{ mm} &= 475 \text{ mm}^2 \\
 \hline
 &1,485 \text{ mm}^2
 \end{aligned}$$

$$S.A. = 2,970 \text{ mm}^2$$