

Homework Questions?

Worksheet Answers

2) 6.2 8) 7.3
4) 10.5 10) 3.7
6) 4.3

$$8. e) \sqrt{6.056}$$

$$\sqrt{\frac{56}{1000}}$$

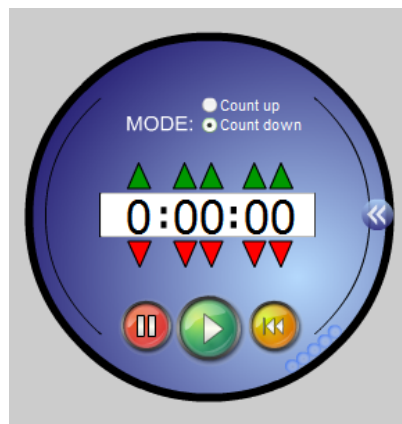
$$\sqrt{\frac{56}{100}}$$

$$\sqrt{\frac{4}{100}}$$

$$\sqrt{\frac{9}{100}}$$

$$\sqrt{\frac{9}{100}}$$
$$\frac{3}{10}$$

Homework Check



Area of a rectangle

Area of a parallelogram

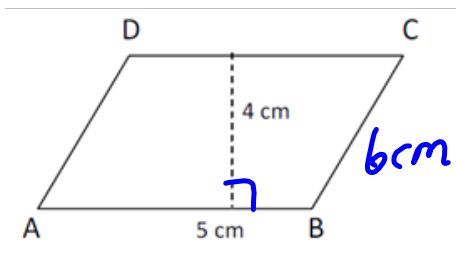
$$A = bh$$

5²

area of a triangle

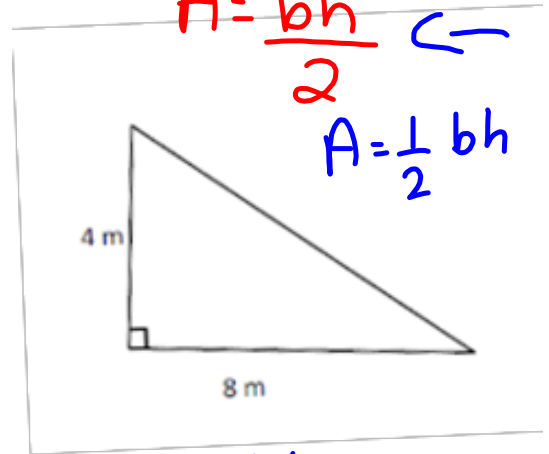
$$A = \frac{bh}{2}$$

$$A = \frac{1}{2}bh$$



Area?

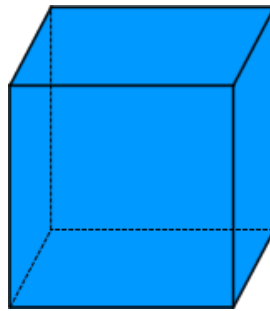
$$\begin{aligned} A &= bh \\ &= 5 \times 4 \\ &= 20 \text{ cm}^2 \end{aligned}$$



$$\begin{aligned} A &= \frac{bh}{2} \\ &= \frac{8 \times 4}{2} \\ &= 16 \text{ m}^2 \end{aligned}$$

Review

A face is one flat surface of an object

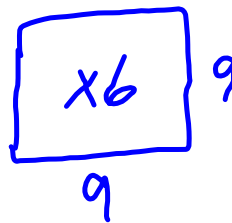
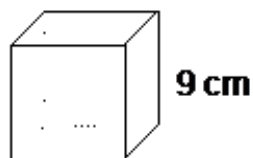


To Find Surface Area...

Step 1 Draw the faces

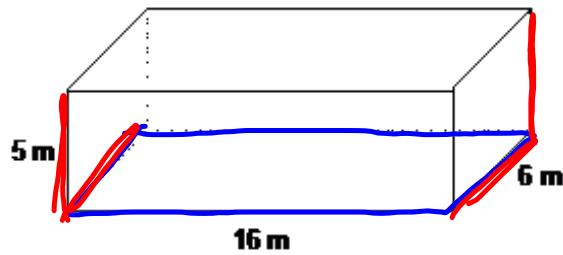
Step 2 Find the area of each face

Step 3 Add the area of each face



$$\begin{aligned}
 A &= bh & A &= S^2 \\
 &= 9 \times 9 \\
 &= 81 \\
 &\times 6 \text{ faces} \\
 \hline
 \end{aligned}$$

$$\begin{aligned}
 \text{Total Surface Area} &= 486 \text{ cm}^2 \\
 &[\text{TSA}]
 \end{aligned}$$



Front/Back

$$\begin{array}{r}
 \boxed{5m \times 2} \\
 16m \\
 A = bh \\
 = 16 \times 5 \\
 = 80 \\
 \times 2 \\
 \hline
 160
 \end{array}$$

Top/Bottom

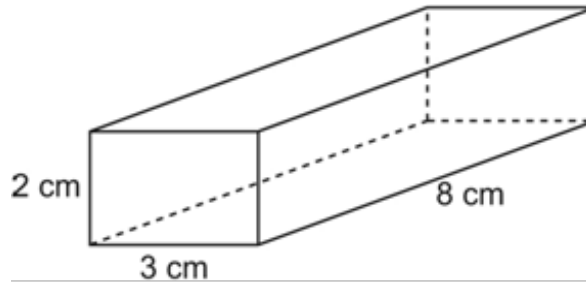
$$\begin{array}{r}
 \boxed{16 \times 2} \quad 6 \\
 16 \\
 A = bh \\
 = 16 \times 6 \\
 = 96 \\
 \times 2 \\
 \hline
 192
 \end{array}$$

Sides

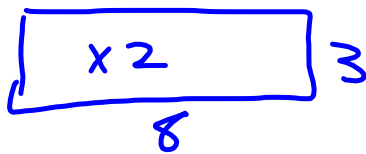
$$\begin{array}{r}
 \boxed{6 \times 2} \quad 5 \\
 6 \\
 A = bh \\
 = 6 \times 5 \\
 = 30 \\
 \times 2 \\
 \hline
 60
 \end{array}$$

$$\begin{array}{r}
 TSA = 160 + 192 + 60 \\
 = 412 m^2
 \end{array}$$

2.c)

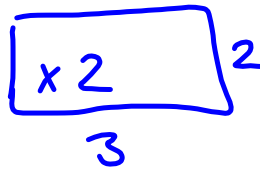


Top/Bottom



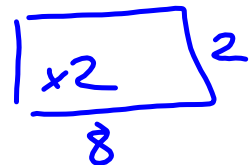
$$\begin{aligned}
 A &= bh \\
 &= 8 \times 3 \\
 &= 24 \\
 &\times 2 \\
 \hline
 &48
 \end{aligned}$$

Front/Back



$$\begin{aligned}
 A &= bh \\
 &= 3 \times 2 \\
 &= 6 \\
 &\times 2 \\
 \hline
 &12
 \end{aligned}$$

side



$$\begin{aligned}
 A &= bh \\
 &= 8 \times 2 \\
 &= 16 \\
 &\times 2 \\
 \hline
 &32
 \end{aligned}$$

$$\begin{aligned}
 TSA &= 48 + 12 + 32 \\
 &= 92 \text{ cm}^2
 \end{aligned}$$

Surface Area of Composite Objects

A composite object is the result of combining one or more objects to make a new object



Number of Cubes	Surface Area (square units)
1	
2	
3	
4	
5	

***Each connection give a loss
of two faces ***