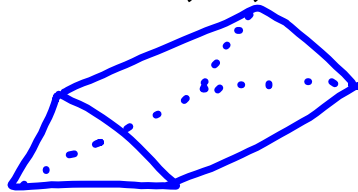


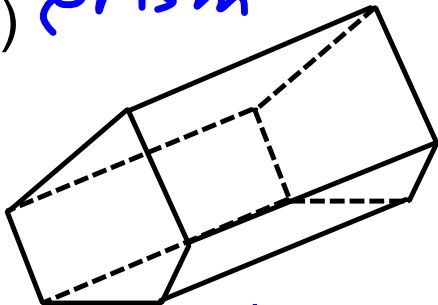
~~HW. pg. 333 334/1, 2, 3 3, 12, 22~~

Warm up:



Identify the following solids. List the number and shapes of the faces

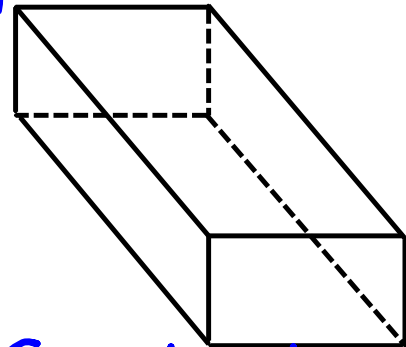
1) *pentagonal prism*



*2 pentagons
5 rectangles*

rectangular prism

2)

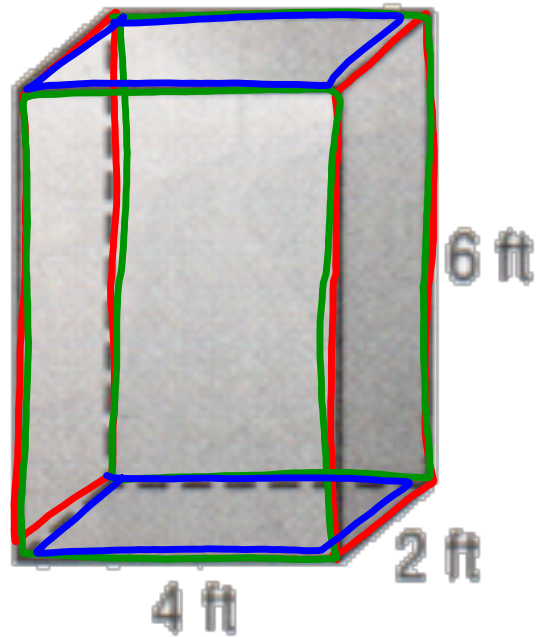


6 rectangles

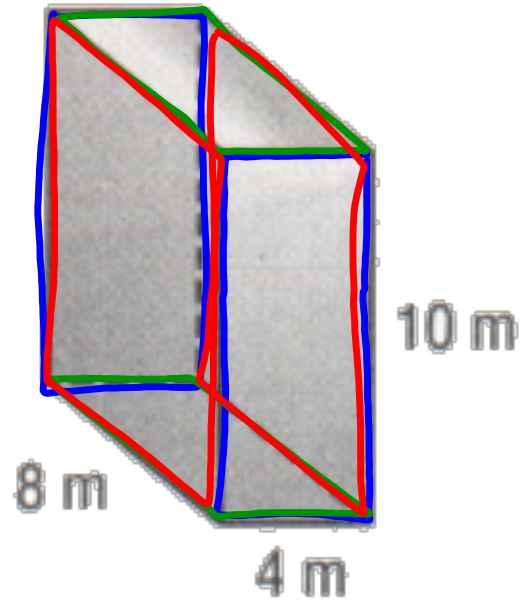
What is surface area?

$$\begin{aligned} 6 \cdot 2 &= 12 \\ &12 \\ 4 \cdot 6 &= 24 \\ &24 \\ 4 \cdot 2 &= 8 \\ &8 \end{aligned}$$

$$\underline{\underline{88 \text{ ft}^2}}$$



$$\begin{array}{r} 10 \cdot 4 = 40 \\ \quad 40 \\ 4 \cdot 8 = 32 \\ \quad 32 \\ 8 \cdot 10 = 80 \\ \quad 80 \\ \hline 304 \text{ m}^2 \end{array}$$



$$A(\text{triangle}) = \frac{1}{2}bh$$

base and height are always perpendicular

$$\frac{1}{2} \cdot 4 \cdot 3 = 6$$

6

$$7 \cdot 4 = 28$$

$$3 \cdot 7 = 21$$

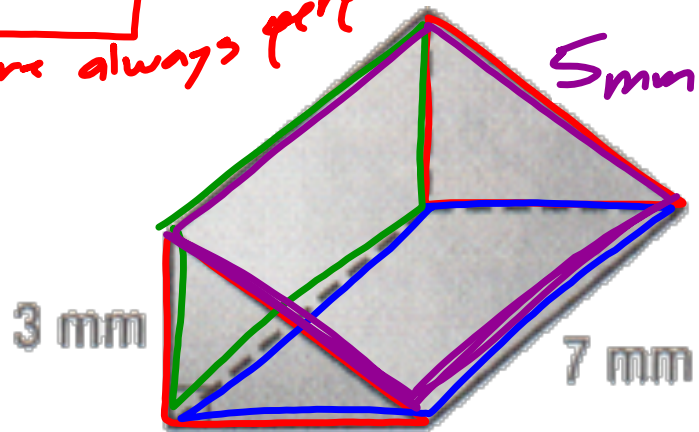
$$7 \cdot 5 = 35$$

$$96 \text{ mm}^2$$

$$3^2 + 4^2 = c^2$$

$$9 + 16 = c^2$$

$$25 = c^2 \quad c = 5$$



$$6.1 \cdot 17 = 103.7$$

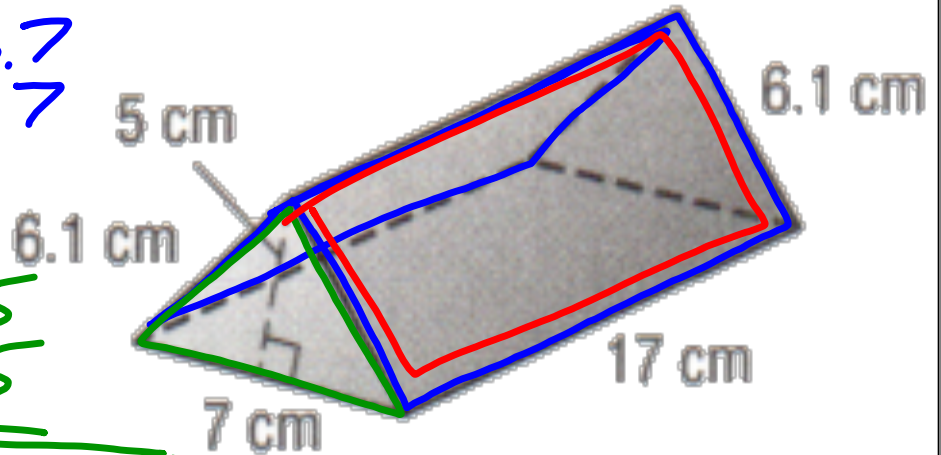
$$103.7$$

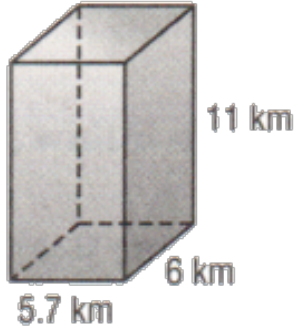
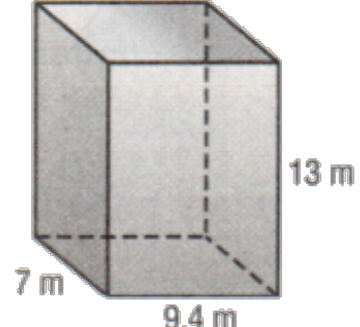
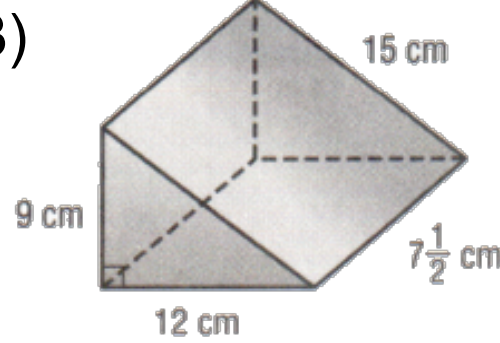
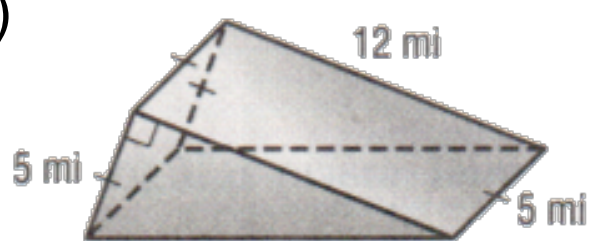
$$7 \cdot 17 = 119$$

$$\frac{1}{2} \cdot 7.5 = 17.5$$

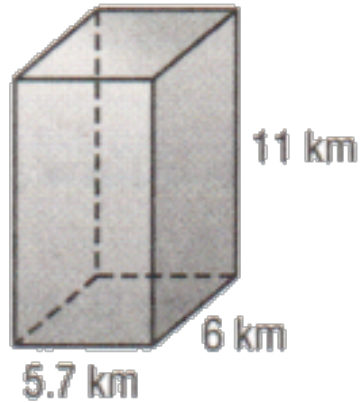
$$17.5$$

$$361.4 \text{ cm}^2$$



<p>1)</p>  <p>A 3D diagram of a rectangular prism. The front-left edge is labeled 5.7 km, the front-right edge is labeled 6 km, and the vertical back edge is labeled 11 km. Dashed lines indicate hidden edges.</p>	<p>2)</p>  <p>A 3D diagram of a rectangular prism. The front-left edge is labeled 7 m, the front-right edge is labeled 9.4 m, and the vertical back edge is labeled 13 m. Dashed lines indicate hidden edges.</p>
<p>3)</p>  <p>A 3D diagram of a triangular prism. The front-left edge is labeled 9 cm, the front-bottom edge is labeled 12 cm, and the front-right edge is labeled $7\frac{1}{2}$ cm. The vertical back edge is labeled 15 cm. A right-angle symbol is shown at the bottom-left corner of the front face. Dashed lines indicate hidden edges.</p>	<p>4)</p>  <p>A 3D diagram of a triangular prism. The front-left edge is labeled 5 mi, the front-right edge is labeled 5 mi, and the front-top edge is labeled 12 mi. The vertical back edge is labeled 5 mi. A right-angle symbol is shown at the top-left corner of the front face. Dashed lines indicate hidden edges.</p>
<p>5) cube: edge length, 11m</p>	
<p>6) rectangular prism: length, 9cm; width, 13cm; height, 118.4cm</p>	
<p></p>	

1)



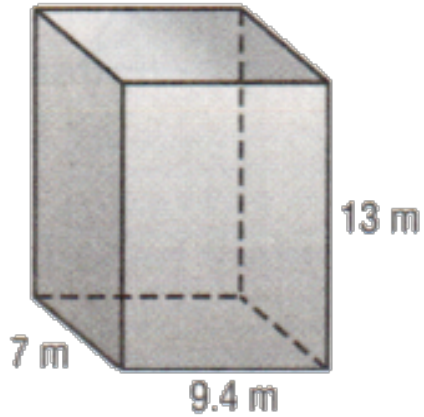
$$5.7 \cdot 6 = \underline{34.2}$$

$$5.7 \cdot 11 = \underline{62.7}$$

$$6 \cdot 11 = \underline{66}$$

$$\underline{325.8 \text{ km}^2}$$

2)



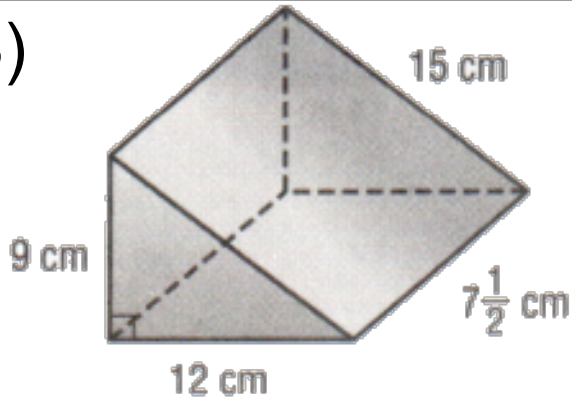
$$7 \cdot 9.4 = \frac{65.8}{65.8}$$

$$7 \cdot 13 = \frac{91}{91}$$

$$9.4 \cdot 13 = \frac{122.2}{122.2}$$

$$558 \text{ m}^2$$

3)



$$\frac{1}{2} \cdot 9 \cdot 12 = 54$$

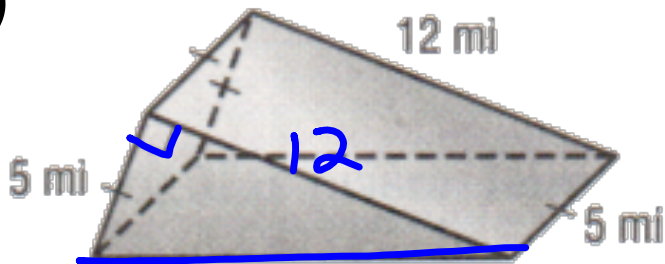
$$9 \cdot 7.5 = 67.5$$

$$12 \cdot 7.5 = 90$$

$$15 \cdot 7.5 = 112.5$$

$$378 \text{ cm}^3$$

4)



$$5^2 + 12^2 = x^2$$

5) cube: edge length, 11m

6) rectangular prism: length, 9cm; width, 13cm; height, 118.4cm