

# Unit 4: Geometry Review #2

# Key

W/U # 10  
HW

Directions: Find the surface area of each figure.

1.  $SA = 150.8 \text{ km}^2$

$\triangle 8 \cdot 10 \cdot \frac{1}{2} = 40$   
 $\triangle 8.2 \cdot 8 \cdot \frac{1}{2} = 32.8$   
 $2 \cdot 40 + 32.8 = 112.8$   
 $2 \cdot \frac{1}{2} \cdot 10 \cdot 8.2 = 82$   
 $112.8 + 82 = 194.8$

$2.8 \cdot 13 = 36.4$   
 $2.8 \cdot 5 = 14$   
 $2 \cdot 13 \cdot 5 = 130$   
 $36.4 + 14 + 130 = 180.4$

$SA = 418 \text{ in}^2$

3.  $SA = 88.4 \text{ yds}^2$

$7 \cdot 7 = 49$   
 $2 \cdot \frac{1}{2} \cdot 5.2 \cdot 7 = 36.4$   
 $2 \cdot \frac{1}{2} \cdot 4 \cdot 7 = 28$

4.  $SA = 84 \text{ m}^2$

$2 \cdot \frac{1}{2} \cdot 3 \cdot 4 = 12$   
 $6 \cdot 3 = 18$   
 $6 \cdot 4 = 24$   
 $6 \cdot 5 = 30$

Directions: Find the volume of the figures.

5.  $V = 288 \text{ in}^3$

$V = Bh$   
 $12 \cdot 4 \cdot 6 = 288$

$V = 324 \text{ ft}^3$

$V = \frac{1}{2}bh \cdot \text{Prism}$   
 $\frac{1}{2} \cdot 9 \cdot 12 \cdot 6 = 324$

7.  $V = 120 \text{ cm}^3$

$V = Bh$   
 $3 \cdot 4 \cdot 10 = 120$

8.  $V = 194.4 \text{ yds}^3$

$V = Bh - \text{Prism}$   
 $\frac{1}{2} \cdot 8 \cdot 5.4 \cdot 9 = 194.4$