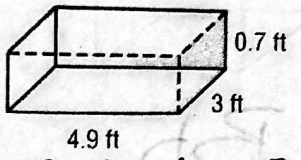
Name _____ Key N/U - HW w/u #9

Find the surface area of each.

1)

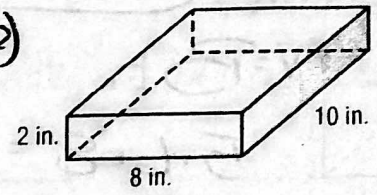


$SA = 2 \cdot 4.9 \cdot 3 + 2 \cdot 4.9 \cdot .7 + 2 \cdot 3 \cdot .7$

$29.4 + 6.86 + 4.2$

$40.46 ft^2$

2)

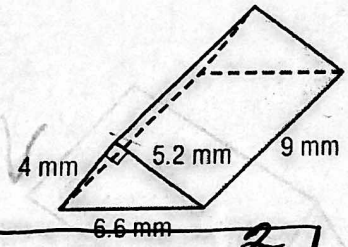


$SA = 2 \cdot 8 \cdot 2 + 2 \cdot 8 \cdot 10 + 2 \cdot 2 \cdot 10$

$32 + 160 + 40$

$232 in^2$

3)



$SA = 163 mm^2$

2 × 5.2 $2 \cdot \frac{1}{2} \cdot 4 \cdot 5.2 = 20.8$

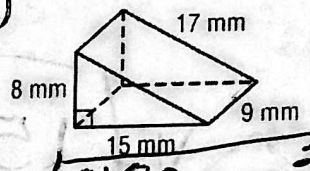
4 9 $9 \cdot 4 = 36$

9 4 $9 \cdot 5.2 = 46.8$

9 5.2 $9 \cdot 6.6 = 59.4$

9 6.6 $163 mm^2$

4)



$SA = 480 mm^2$

2 × 8 15 $2 \cdot \frac{1}{2} \cdot 8 \cdot 15 = 120$

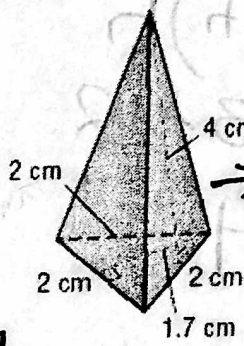
9 8 $9 \cdot 8 = 72$

9 15 $9 \cdot 15 = 135$

9 17 $9 \cdot 17 = 153$

$480 mm^2$

5)



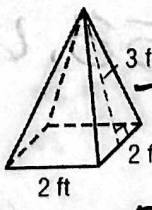
$\rightarrow SA = 13.7 cm^2$

2cm 1.7 $\frac{1}{2} \cdot 2 \cdot 1.7 = 1.7$

3 × 4cm 2cm $3 \cdot \frac{1}{2} \cdot 2.4 = 12$

$13.7 cm^2$

6)



$\rightarrow SA = 16 ft^2$

2 $5^2 = 2^2 = 4$

4 × 3ft 2ft $4 \cdot \frac{1}{2} \cdot 2 \cdot 3 = 12$

$16 ft^2$