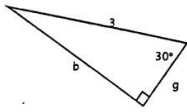


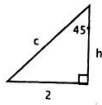
## Station 2

Directions: Find the indicated values. Leave your answers as fractions or radicals....NO DECIMALS!

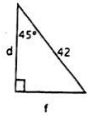
1.  $b = \frac{3}{2}$      $g = \frac{3\sqrt{3}}{2}$



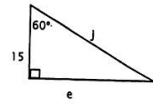
2.  $c = 2\sqrt{2}$      $h = 2$



3.  $d = 21\sqrt{2}$      $f = 21\sqrt{2}$



4.  $e = 15\sqrt{3}$      $j = 30$



## Station 1

Directions: Find the correct ratio. Write your answer as a simplified FRACTION.

1.  $\sin A = \frac{9}{11}$

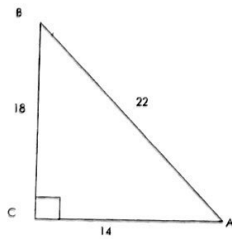
2.  $\cos A = \frac{7}{11}$

3.  $\cos B = \frac{9}{11}$

4.  $\tan B = \frac{7}{9}$

5.  $\tan A = \frac{9}{7}$

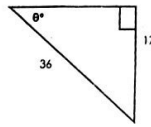
6.  $\sin B = \frac{7}{11}$



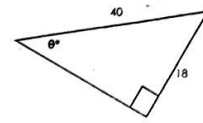
## Station 4

Directions: Solve for the indicated measures. Round your answers to nearest TENTH.

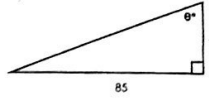
1.  $\theta = 28.2^\circ$



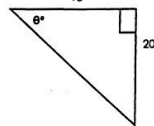
2.  $\theta = 26.7^\circ$



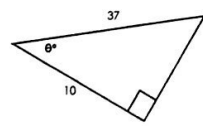
3.  $\theta = 87.3^\circ$



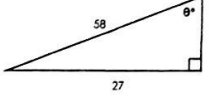
4.  $\theta = 48.0^\circ$



5.  $\theta = 74.3^\circ$



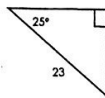
6.  $\theta = 27.7^\circ$



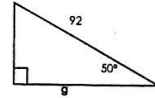
## Station 3

Directions: Find the indicated values. Round your answer the nearest TENTH.

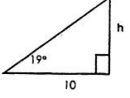
1.  $f = 9.7$



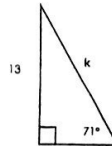
2.  $g = 59.1$



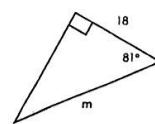
3.  $h = 3.4$



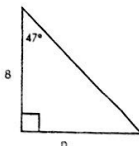
4.  $k = 13.7$



5.  $m = 115.1$



6.  $n = 8.6$



## Station 6

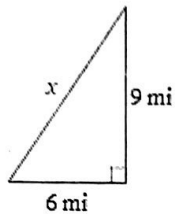
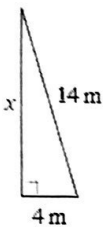
**Directions:** Find the missing side of the triangle. Then find the perimeter & the area. Leave all answers in simplified radical form!

$$1. x = \underline{6\sqrt{5}} \\ A = \underline{12\sqrt{5}}$$

$$P = \underline{18 + 6\sqrt{5}}$$

$$2. x = \underline{3\sqrt{13}} \\ A = \underline{27}$$

$$P = \underline{15 + 3\sqrt{13}}$$



## Station 5

**Directions:** Solve the following word problems. Round your answer to the nearest HUNDRETH.

1. A boy flying a kite lets out 300 feet of string which makes an angle of  $38^\circ$  with the ground. Assuming the string is straight, how high above the ground is the kite?

$$x = \underline{184.7\text{ ft}}$$

2. A tree casts a shadow that is 42 feet long. The angle of elevation to the top of the tree is  $38^\circ$ . How tall is the tree?

$$x = \underline{32.8\text{ ft}}$$

3. A radio tower is 78 feet tall. Find the angle of elevation to the top of the tower at a point on level ground 60 feet from its base.

$$\theta = \underline{52.4^\circ}$$

4. The base of a lighthouse that is 500 feet away from a buoy in the ocean has a  $67^\circ$  angle of depression from the top of the lighthouse to the buoy. How tall is the lighthouse?

$$x = \underline{1177.9\text{ ft}}$$

## Station 7

**Directions:** Solve the right triangles completely. Round all answers to the nearest HUNDRETH.

$$1. m\angle A = \underline{47^\circ} \quad BC = \underline{10.97} \\ AC = \underline{10.2}$$

$$2. m\angle Q = \underline{51.6^\circ} \quad m\angle S = \underline{38.4^\circ} \\ QR = \underline{22.98}$$

