3. kitchen and dining area

$$Area = 5461^{1}$$

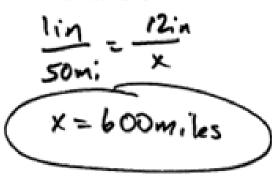
$$Area = 972ft^2$$

On a map, the scale is 1 inches = 50 miles. For each map distance, find the actual distance.

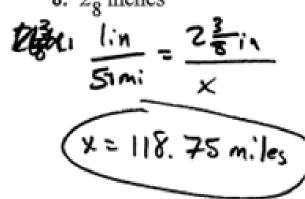
6. 5 inches

$$\frac{1.in}{50mi} = \frac{5in}{x}$$

$$x = 250miles$$



8.
$$2\frac{3}{8}$$
 inches



9.
$$\frac{4}{5}$$
 inch

10.
$$2\frac{5}{6}$$
 inches

11. 3.25 inches

12. A queen bed has the dimensions of 5 feet wide by 6 feet 8 inches long. If you are drawing a scale drawing using the 1 inch = 20 inches, what will the dimensions of the bed be in your drawing?
(Hint→ You'll have to convert all the measurements to the same unit of measurement.)

$$\frac{1in}{20in} = \frac{x}{60in}$$

$$\frac{1in}{20in} = \frac{x}{80i}$$

$$\frac{20x = 60}{20}$$

$$\frac{20x = 80}{20}$$

$$\frac{20x = 80}{20}$$

$$\frac{20x = 80}{20}$$

$$\frac{20x = 80}{20}$$

$$\frac{20x = 4in}{20}$$

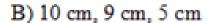
$$\frac{3in by 4in}{20}$$

1) Using the information above, tell whether (Yes or No) the side lengths and angle measures can be those of a triangle. Show work to prove why the angles and side lengths would or wouldn't make a triangle.

MAKE SURE YOU'RE USING THE CORRECT METHOD! (Sides or Angles?)

A) 29°, 73°, 68° 29+ 73+61 -170°

E) 6 in, 6 in, 12 in



C) 122°, 15°, 43°

D) 79°, 19°, 82°

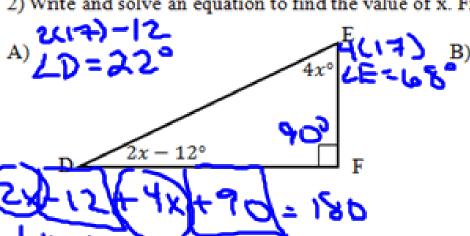
14310

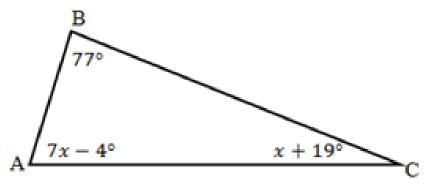
F) 5 ft, 7 ft, 14 ft

G) 144°, 25°, 13°

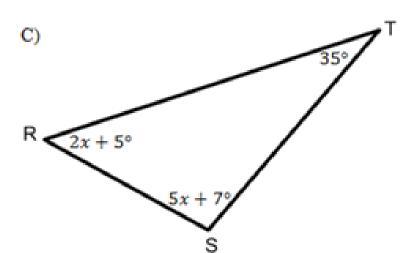
H) 8 m, 7 m, 9 m

2) Write and solve an equation to find the value of x. Find the measurements of the missing angles using x.

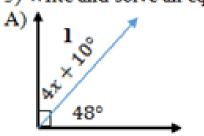


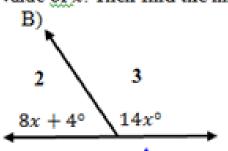


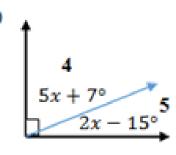
$$x = \frac{17}{2} \angle D = \frac{33}{2} \angle E = \frac{1}{2}$$



3) Write and solve an equation to find the value of x. Then find the missing angle(s).







Relationship: wmplementary Relationship: Supplementary

X+10+48=90

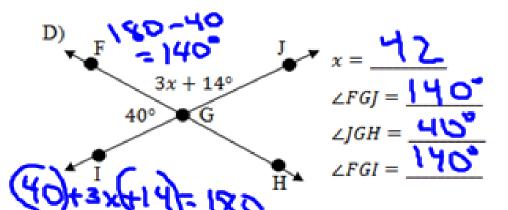
X+4+14x=180

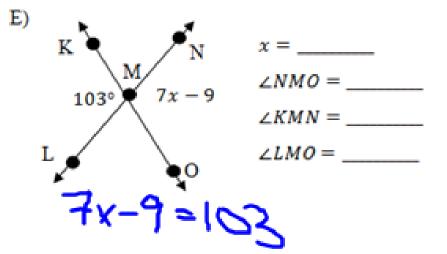
Relationship:____

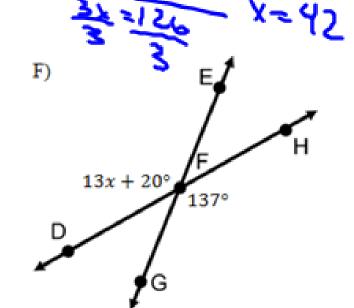
$$x =$$

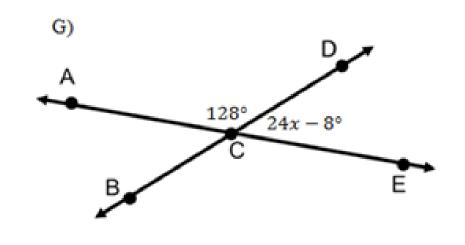
$$x = _{----}$$

$$x = _{----}$$







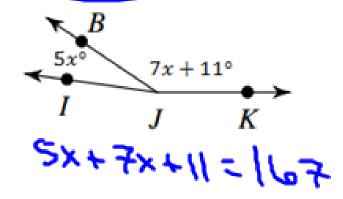


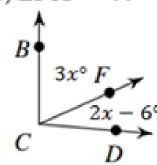
 $\chi =$

3x+54-180

4) Write and solve an equation to find the value of x using the information given. Then find the missing

$$A) \angle IJK = 167^{\circ}$$





C)
$$\angle GFE = 133^{\circ}$$

$$E \qquad F$$

$$10x + 3^{\circ}$$

$$N \qquad 5x + 10^{\circ}$$

$$x =$$

$$\angle EFN =$$

5) A blueprint of a house that has a scale of $1in = 4$	ft. Use the scale to answer the following problems.
---	---

A) The living room of the house is 5 in by $7\frac{1}{2}$ in on the blueprint. Determine the dimensions and area of the actual living room.

Dimensions →

B) A bedroom in the house has a width of $3\frac{1}{8}$ inches and a length of $4\frac{3}{4}$ inches on the blueprint. Determine the dimensions and area of the actual bedroom.

Dimensions → _____ Area = _____

C) The actual house is 45 ft by $63\frac{1}{2}ft$. Determine the dimensions of the house on the blueprint.

Dimensions → _____

6) Find the lengths of the actual objects/people by using the scale given in each problem.

A) Find the actual length of the airplane.

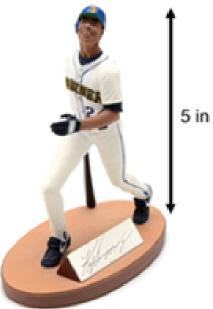
$$1 \text{ cm} = 9 \text{ ft}$$



Length = _____

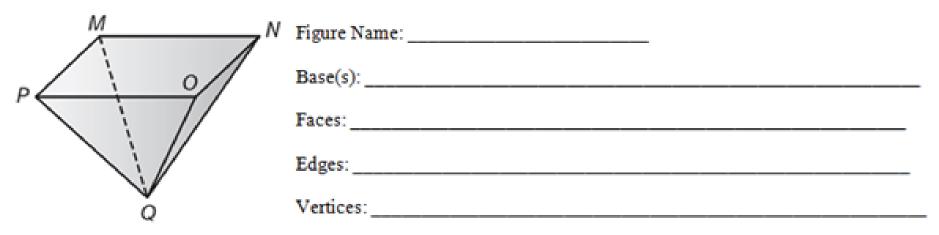
B) Find the actual height of the baseball player.

$$1 \text{ in} = 1 \frac{1}{4} \text{ ft}$$



Height = _____

- 7) Use the figure below to answer A and B.
- A) Identify the figure. Then identify all the bases, faces, edges, and vertices.



B) Draw a top, side, and front view of the figure above.

Top Side Front

8) Describe the shape resulting from each cross section.

