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Applications with Solving Multi-Step Equations

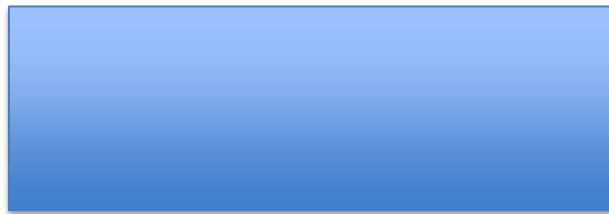
- 1) Angles J and K are complementary. Find the measures of the angles if:

$$m\angle J = (3x + 2)^\circ \text{ and } m\angle K = (x + 8)^\circ$$

- 2) The sum of the degrees of Polygon F is 540° . If the formula for finding the number of degrees in a polygon is $(n-2) \times 180^\circ$, where n is the number of sides, how many sides are in the polygon?

- 3) The perimeter of the rectangle below is 32 ft. What is the value of x? Then tell the dimensions of the rectangle.

$$2x-1$$



$$3x+2$$