

12.5 centimeters long jump?

TEXAS @HomeTutor for problem solving help at classzone.com

- **50. MULTI-STEP PROBLEM** Jen was the leading scorer on her soccer team. She scored 120 goals and had 20 assists in her high school career.
 - **a.** The number *n* of points awarded for goals is given by 2g where g is the number of goals scored. How many points did Jen earn for goals?
 - **b.** The point total is given by n + a where a is the number of assists. Use your answer from part (a) to find Jen's point total.

51. MULTI-STEP PROBLEM You are buying a tank for three fish. You have a flame angel that is 3.5 inches long, a yellow sailfin tang that is 5.5 inches long, and a coral beauty that is 3 inches long. The area (in square inches) of water surface the fish need is given by the expression 12f where f is the sum of the lengths (in inches) of all the fish in the tank.

- a. What is the total length of the three fish?
- b. How many square inches of water surface do the fish need?
- 52. **TAKS REASONING** For a snow sculpture contest, snow is packed into a cube-shaped box with an edge length of 8 feet. The box is frozen and removed, leaving a cube of snow. One cubic foot of the snow weighs about 30 pounds. You can estimate the weight (in pounds) of the cube using the expression 30V where V is the volume (in cubic feet) of the snow. About how much does the uncarved cube weigh?
 - A 240 pounds
 - **(C)** 15,360 pounds

B 1920 pounds

(D) 216,000 pounds



= WORKED-OUT SOLUTIONS on p. WS1



on p. 3

EXAMPLE 5

on p. 4 for Exs. 51–52