

**• Student Portion •****DIRECTIONS:**

- Read each item carefully.
- Follow the directions to solve each problem.
- Circle your final answer(s).

**1. Subtract the mixed numbers. Simplify the answer to lowest terms.**

$$3\frac{1}{6} - 1\frac{3}{4} =$$

**2. Divide the mixed numbers. Simplify the answer to lowest terms.**

$$2\frac{1}{4} \div 1\frac{1}{8} =$$

**3. Write using an exponent:**

$$13 \cdot 13 \cdot 13 \cdot 13$$

**4. Use a radical to show the relationship between 25 and 5.**

**5. Solve for x.**

$$4x - 11 = -3.8$$

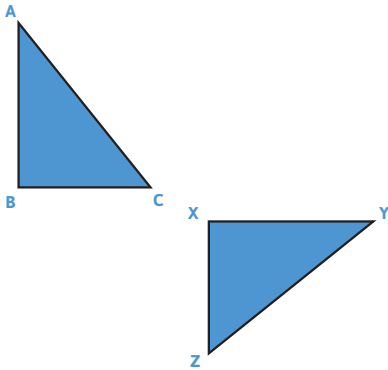
**6. Solve for x:**

$$\frac{3}{57} = \frac{2}{x}$$

**7. Solve. Use any strategy.**

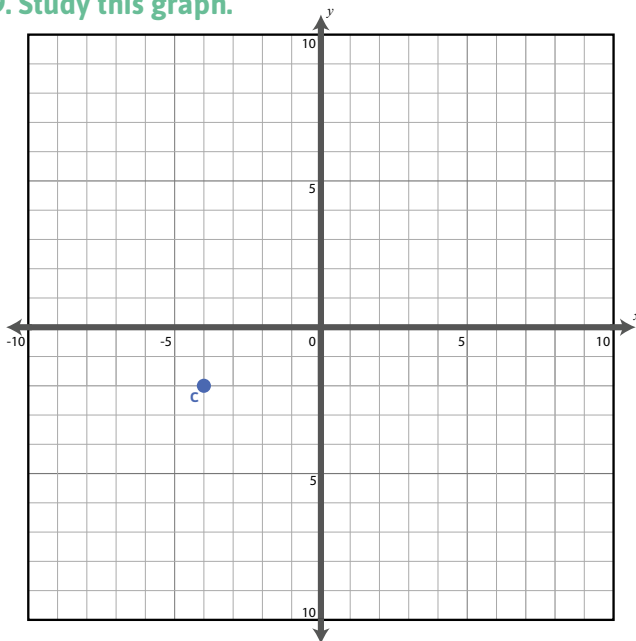
Ian bought a box of cookies. According to the label on the box, four cookies make one serving. One serving of cookies has 100 calories. Ian ate 14 cookies. How many calories did he eat?

8. These triangles are the same size and shape.



Triangle ABC can be turned so that it lies exactly on top of Triangle XYZ. List the matching corners (vertices).

9. Study this graph.



Name the quadrant in which point C would lie if it were moved to (-4, 2).

10. Solve. Use any strategy.

A factory worker is sewing binding on the edge of a blanket. There is still a 27-cm length along one side of the blanket that has not been bound. The worker has pieces of binding that are 12 cm long, 10 cm long, 9 cm long, and 6 cm long. Which combination of pieces should he use to finish edging the blanket? (He will not overlap any pieces.)