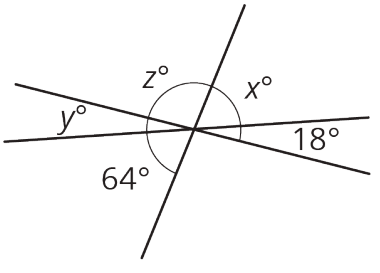
Lesson 6 Practice Problems

1. A rectangle has side lengths of 6 units and 3 units. Could you make a quadrilateral that is not identical using the same four side lengths? If so, describe it.

2. Come up with an example of three side lengths that can not possibly make a triangle, and explain how you know.

3. Find x, y, and z.



(From Unit 7, Lesson 3.)

4. How many right angles need to be put together to make:

   a. 360 degrees?

   b. 180 degrees?

   c. 270 degrees?

   d. A straight angle?

(From Unit 7, Lesson 1.)

5. Solve each equation.

$\frac{1}{7}(x + \frac{3}{4}) = \frac{1}{8}$

$\frac{9}{2} = \frac{3}{4}(z + \frac{2}{3})$

$1.5 = 0.6(w + 0.4)$

$0.08(7.97 + v) = 0.832$

(From Unit 6, Lesson 8.)

6. a. You can buy 4 bottles of water from a vending machine for $7. At this rate, how many bottles of water can you buy for $28? If you get stuck, consider creating a table.

b. It costs $20 to buy 5 sandwiches from a vending machine. At this rate, what is the cost for 8 sandwiches? If you get stuck, consider creating a table.

(From Unit 4, Lesson 3.)