Section 7.2 Focus Exercise Answers

1. Let x =the length x - 2 =the width

Sentence: The length is 8 inches and the width is 6 inches.

2. Let x =the width 2x - 1 =the length

Sentence: The length is 6 feet and the width is $3\frac{1}{2}$ feet.

3. Let x =the length $\frac{1}{2} x - 1 =$ the width

Sentence: The length is 12 yards and the width is 5 yards.

4. Let x = the longer leg x - 4 = the smaller leg

Sentence: The longer leg is 10 feet and the smaller leg is 6 feet.

5. Let x = the shorter leg 2x - 6 = the longer leg

Sentence: The shorter leg is 8 feet and the longer leg is 10 feet.

6. Let x = the shorter leg 2x + 2 = the longer leg (2x + 2) + 1 = the hypotenuse

Sentence: The shorter leg is 5 inches, the longer leg is 12 inches, and the hypotenuse is 13 inches.

7. Let x = the shorter leg 3x + 4 = the hypotenuse 3x + 3 = the longer leg

Sentence: The shorter leg is 7 feet, the longer leg is 24 feet, and the hypotenuse is 25 feet.