

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.