

Name: _____

Solving Applied Problems

A 15 foot piece of wood is cut into two pieces. The length of the second piece is 6.25 feet shorter than the first. What is the length of both pieces?

Answer:

A salesperson earns \$1200 per month and a 15% commission on her total sales. If she earned \$3000 last month, what was the amount of her sales?

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Answer:

Piece one = x

Piece two = $x - 6.25$

Total = Piece 1 + Piece 2

$$15 = x + (x - 6.25)$$

$$15 = 2x - 6.25$$

$$21.25 = 2x$$

$$10.625 = x$$

Side one = 10.625 ft

Side two = $10.625 - 6.25 = 4.375$ ft

Check: $10.625 + 4.375 = 15$ ft

A salesperson earns \$1200 per month and a 15% commission on her total sales. If she earned \$3000 last month, what was the amount of her sales?

Answer:

x = total sales

$0.15x$ is the amount of commission from total sales

$$3000 = 1200 + 0.15x$$

$$1800 = 0.15x$$

$$\$12,000 = x$$

Her total sales for the month was \$12,000.