

Lesson 5.7 Problem Solving

Write an equation to represent the problem, using the variable n for the unknown number. Then, solve for the value of the variable. Look at the following problem as an example.

Hanna bought some peaches. Kevin bought 12 peaches. He bought 2 times as many as Hanna. How many did Hanna buy?

What is the unknown number? the number of peaches Hanna bought

If n stands for that, what stands for the number of peaches Kevin bought? $2n$

What number is that? 12

Equation: $2n = 12$ $n =$ 6

SHOW YOUR WORK

Solve each equation.

1. Jaden has a number of baseball cards. He has 35 more than his brother, who has 52. How many cards does Jaden have?

What is the unknown number? _____

Equation: _____ $n =$ _____

2. Orlando paid \$55.60 for a number of tickets to a hockey game. If each ticket was \$6.95, how many tickets did Orlando buy?

What is the unknown number? _____

Equation: _____ $n =$ _____

3. Erica's room is 1.5 times longer than it is wide. It is 18 feet long. How wide is it?

What is the unknown number? _____

Equation: _____ $n =$ _____

4. In a recent basketball game, the Grizzlies lost by 11 points. The Palominos beat them with a score of 92 points. How many points did the Grizzlies score?

What is the unknown number? _____

Equation: _____ $n =$ _____