8.2 Solving Two-Step Equations Part 2

Example: Deon wants to go on a camping trip with his hiking club. The trip costs \$185.75. He paid a deposit of \$45.75 and will save an additional \$17.50 per week to pay for the trip. Write and solve an equation to find the number of weeks Deon will need to save money for the trip.

Let (r) be the number of weeks Deonwill

Example: Salvatore purchased a computer for \$682.20 He paid \$105.40 initially and will pay \$20.60 per month until the computer is paid off. Write and solve an equation to find the number of months Salvatore will make payments for the computer.

Let of be the number of months Salvatore will make

 $\frac{20.60d+105.40=682.20}{-105.40}$

70.6d = 576.8

d=576.8=20.6

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d= 28 months

Example: Marissa wants to go to summer camp. The camp costs \$229. She paid a deposit of \$75, and she will need to save \$14 per week to pay for the trip. Write and solve an equation to find how many weeks Marissa will need to save

Lety be the number of weeks Marissa will save.

Example: A caterer is preparing a dinner for a party. She charges a flat fee of \$16 plus \$8.25 per person. Write and solve an equation to find the number of people at a dinner that costs \$131.50.

Let p be the number of people at dimer.

$$8.25p + 16 = 184.50$$

$$8.25p = 115.50$$
 8.25
 8.25

$$p = 115.50 \div 8.25$$

Bozs 115.50: $p = 14$ people

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