Two-Step Equation Word Problems

Write and solve an equation for each problem.

1 Carla is a waitress at Daybreak Diner, and she earns $5 for each hour she works. Last week, she earned $148 total, including $68 in tips. How many hours did Carla work last week?

$5x + 68 = 148$
$x = 16$
Carla worked 16 hours.

2 Mr. Olin bought 6 sketchbooks for the students in his art class. Each sketchbook was on sale for $3 off. If the sketchbooks cost $18 total before tax, what was the original price of each sketchbook?

$6(x - 3) = 18$
$x = 6$
The original price of each sketchbook was $6.

3 Davion wants to buy 4 tickets to a basketball game. He sees that there is a discount for $25 off his entire purchase at checkout, so the tickets would cost him $215 before tax. What was the original price of each ticket?

$4x - 25 = 215$
$x = 60$
The original price of each ticket was $60.

4 Elana makes knit hats and scarves and sells them in her online store for $12 each. Last week, Elena's store made $180 total. If she sold 8 hats, how many scarves did she sell?

$12(x + 8) = 180$
$x = 7$
Elana sold 7 scarves.

5 Tiana bought 3 video games that each cost the same amount. The tax on each video game was $1.29. She paid a total of $68.37 after tax. What was the price of each video game, before tax?

$3(x + 1.29) = 68.37$
$x = 21.50$
The price of each video game before tax was $21.50.

6 The local pool near Paxton's house charges a one-time registration fee of $18.25 and $17.50 per month. Last year, Paxton paid $105.75. How many months was Paxton a member of the pool?

$18.25 + 17.50x = 105.75$
$x = 5$
Paxton was a member of the pool for 5 months.

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