

Problem Solving: Make an Organized List

You can make an organized list in a table using the information given in a problem. A table organizes the information and helps you solve the problem.

Angie has \$30 to spend at a carnival. Tickets for rides cost \$1.25 each. Write an expression to show how much Angie has left after buying x tickets at the carnival. Make a table to show how much Angie has left after buying $x = 3$ tickets, $x = 8$ tickets, and $x = 15$ tickets.

Write an Expression

x = number of tickets



The expression $30 - 1.25x$ represents the situation.

Make a Table

Use x as a label for one column. Use $30 - 1.25x$ for the other column.

Enter the values for x : 3, 8, and 15.

Solve the expression for each x -value and enter it into the table.

x	$30 - 1.25x$
3	26.25
8	20
15	11.25

So, Angie has \$26.25 left after she buys 3 tickets, \$20 left after she buys 8 tickets, and \$11.25 left after she buys \$15 tickets.

1. Arturo works at a horse ranch. He makes \$50 each week for cleaning out stalls and \$12 for each horse that he grooms. Write an expression that describes Arturo's weekly earnings after grooming x horses.
- _____

x	
5	
9	
12	

2. Using your answer for Exercise 1, complete the table to find how much Arturo earns in a week if he grooms 5 horses, 9 horses, and 12 horses.

x	$6x$
12	
35	
56	

3. Gina sells bracelets at a fair for \$6 each. Complete the table to show how much she earns for $x = 12$ bracelets, $x = 35$ bracelets, and $x = 56$ bracelets.