

Lesson 1 Problem-Solving Practice

Function Tables

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1. DRAGONS The Luck Dragons that live in the Enchanted Forest weigh $4x$ pounds when they are x years old. Make a table of values to show the weights of 6-year-old, 8-year-old, and 10-year-old Luck Dragons.

2. ROLLER COASTER Twelve people are able to ride the Serpent of Fire roller coaster at one time. The rule $12x$ is the total number of people that ride after x rides. Make a table of values to show the total number of people that have been on the roller coaster after 1, 2, 3, and 4 rides.

3. MOVIES At a local movie theater, it costs each student \$5 to see a movie. The rule $5x$ represents the total amount of money the theater collects from x students. Make a table of values to show the total amount of money the theater collects from 2, 5, and 6 students.

4. RABBITS The Friendly Critters Pet Store keeps 3 rabbits in each cage. The rule $3x$ represents the number of rabbits that x cages can hold. Make a table of values to show how many cages it takes to hold 9, 15, and 18 rabbits.

5. BEADS A bead shop sells glass beads for \$7 each minus a \$2 discount. The rule $7x - 2$, where x is the number of glass beads, can be used to find the total cost of x beads. Make a table of values to show how much it costs to buy 5, 6, and 9 glass beads.

6. Use the rule given in Exercise 5 to find the selling price of 15 glass beads.