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**Lesson 7: Creating and Using Ratio Tables to Solve Ratio Problems**

Problem 1

Spraying plants with cornmeal juice is a natural way to prevent fungal growth on the plants. It is made by soaking cornmeal in water, using two cups of cornmeal for every nine gallons of water. Complete the ratio table to answer the questions that follow.

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| --- | --- |
| **Cups of Cornmeal** | **Gallons of Water** |
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|  |  |
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* 1. How many cups of cornmeal should be added to gallons of water?
  2. Paul has only cups of cornmeal. How many gallons of water should he add if he wants to make as much cornmeal juice as he can?
  3. What can you say about the values of the ratios in the table?

Problem 2

James is setting up a fish tank. He is buying a breed of goldfish that typically grows to be inches long. It is recommended that there be gallon of water for every inch of fish length in the tank. What is the recommended ratio of gallons of water per fully-grown goldfish in the tank?

Complete the ratio table to help answer the following questions:

|  |  |
| --- | --- |
| **Number of Fish** | **Gallons of Water** |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

* 1. What size tank (in gallons) is needed for James to have full-grown goldfish?
  2. How many fully-grown goldfish can go in a -gallon tank?
  3. What can you say about the values of the ratios in the table?

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**HOMEWORK: Creating and Using Ratio Tables to Solve Ratio Problems**

A father and his young toddler are walking along the sidewalk. For every 3 steps the father takes, the son takes 5 steps just to keep up.

a. What is the ratio of the number of steps the father takes to the number of steps the son takes?

b. Add labels to the columns of the table, and place the ratio into the first row of data. Add equivalent ratios to build a ratio table.

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c. What can you say about the values in the ratio table?

Assume each of the following represents a table of equivalent ratios. **Fill in the missing values**.

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
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