

Wrangling Ratios and Perfecting Proportions

Dr. Eileen Faulkenberry



TARLETON
STATE UNIVERSITY
Member of The Texas A&M University System

- **A Ratio**

- compares two quantities
- does not need to have the same units
- refers to a multiplicative relationship between two quantities

- **Examples:**

- 2 boys to 3 girls
- 1 cup OJ concentrate to 2 quarts water

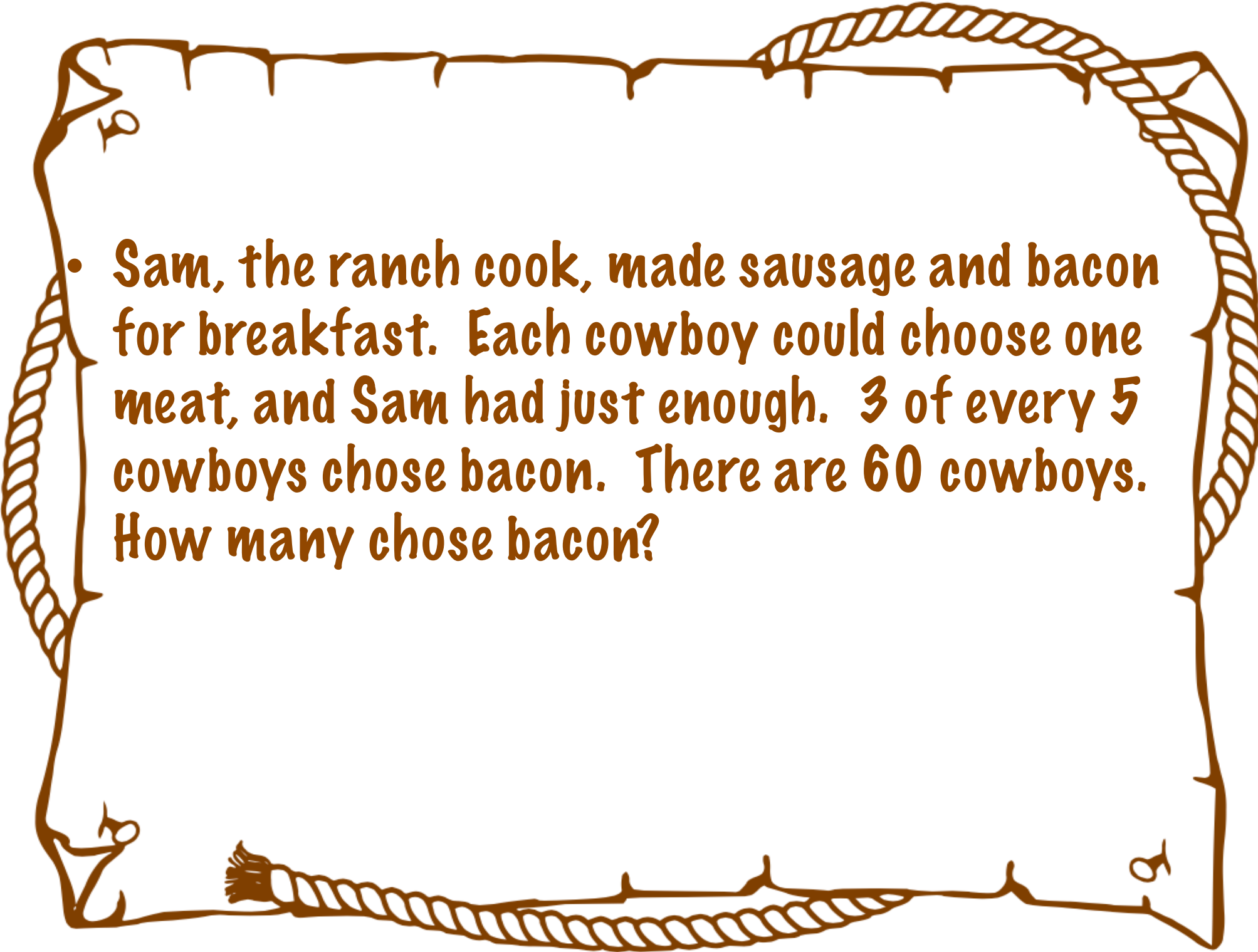
- **A Proportion**

- Equates two ratios

- Projects a ratio into another situation

- **Examples:**

- On a map 1 inch represents 15 miles. How many miles apart are two towns that are 2.5 inches apart on the map?
 - The recipe calls for one part sugar to 3 parts flour. How much sugar is needed if I am using 12 cups of flour?

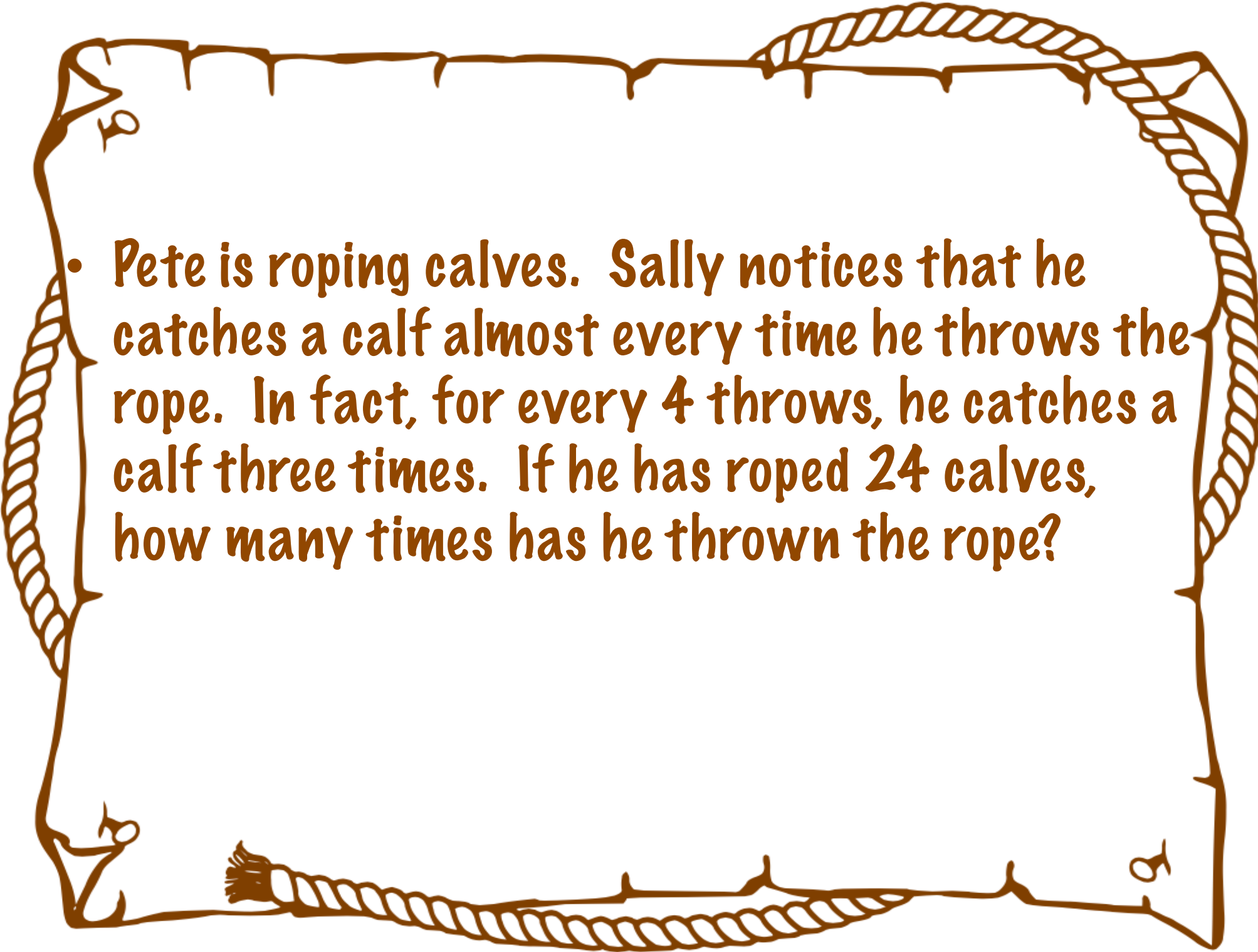
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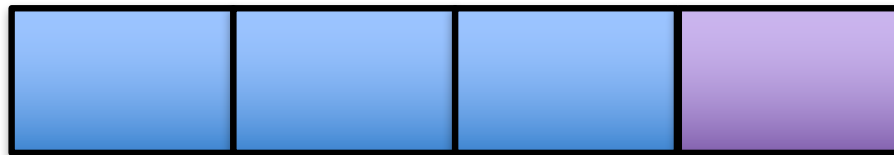


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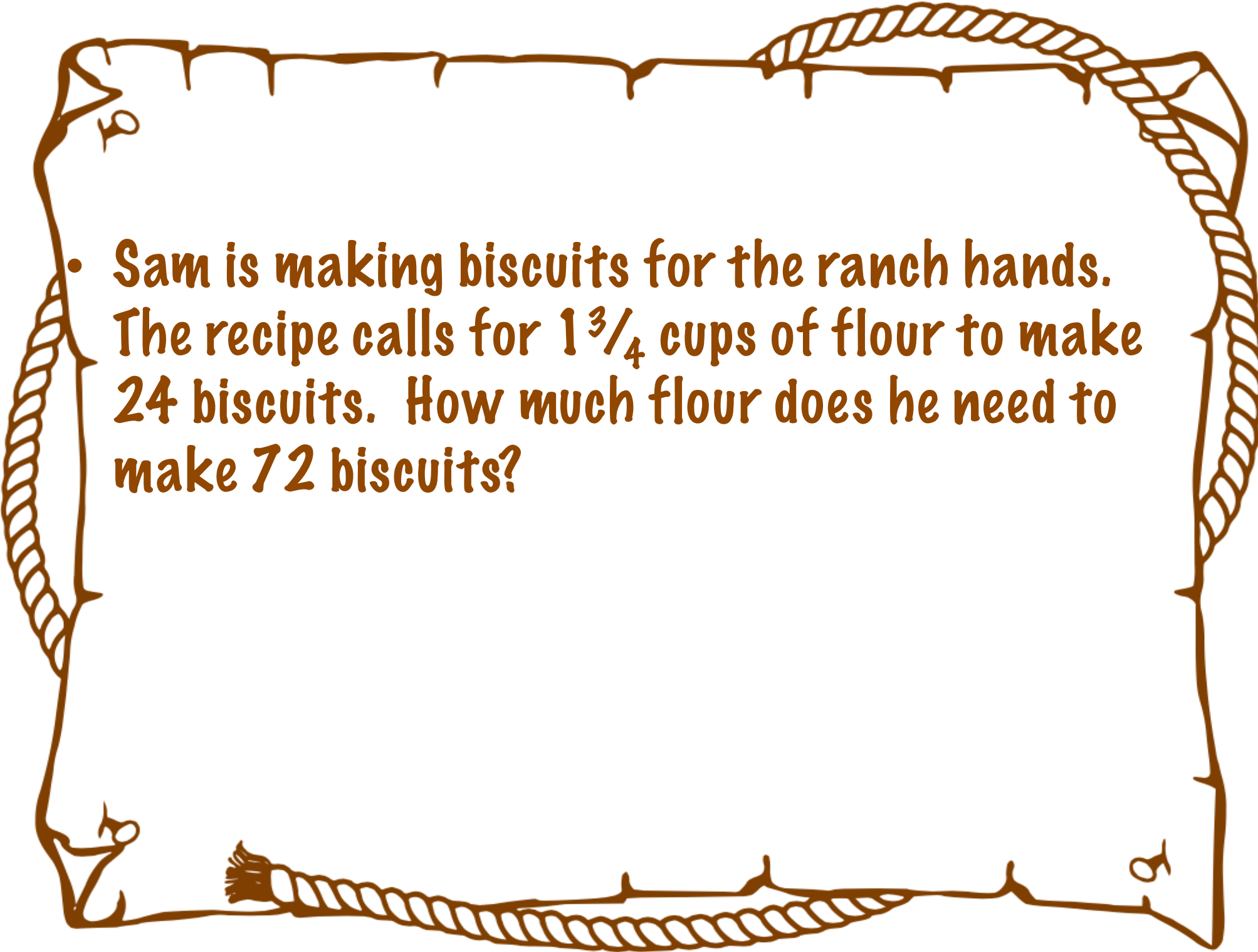


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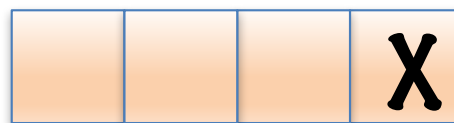
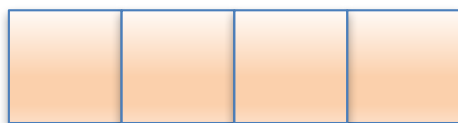
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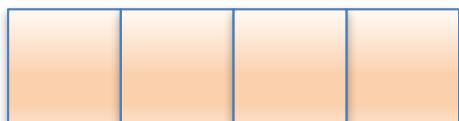


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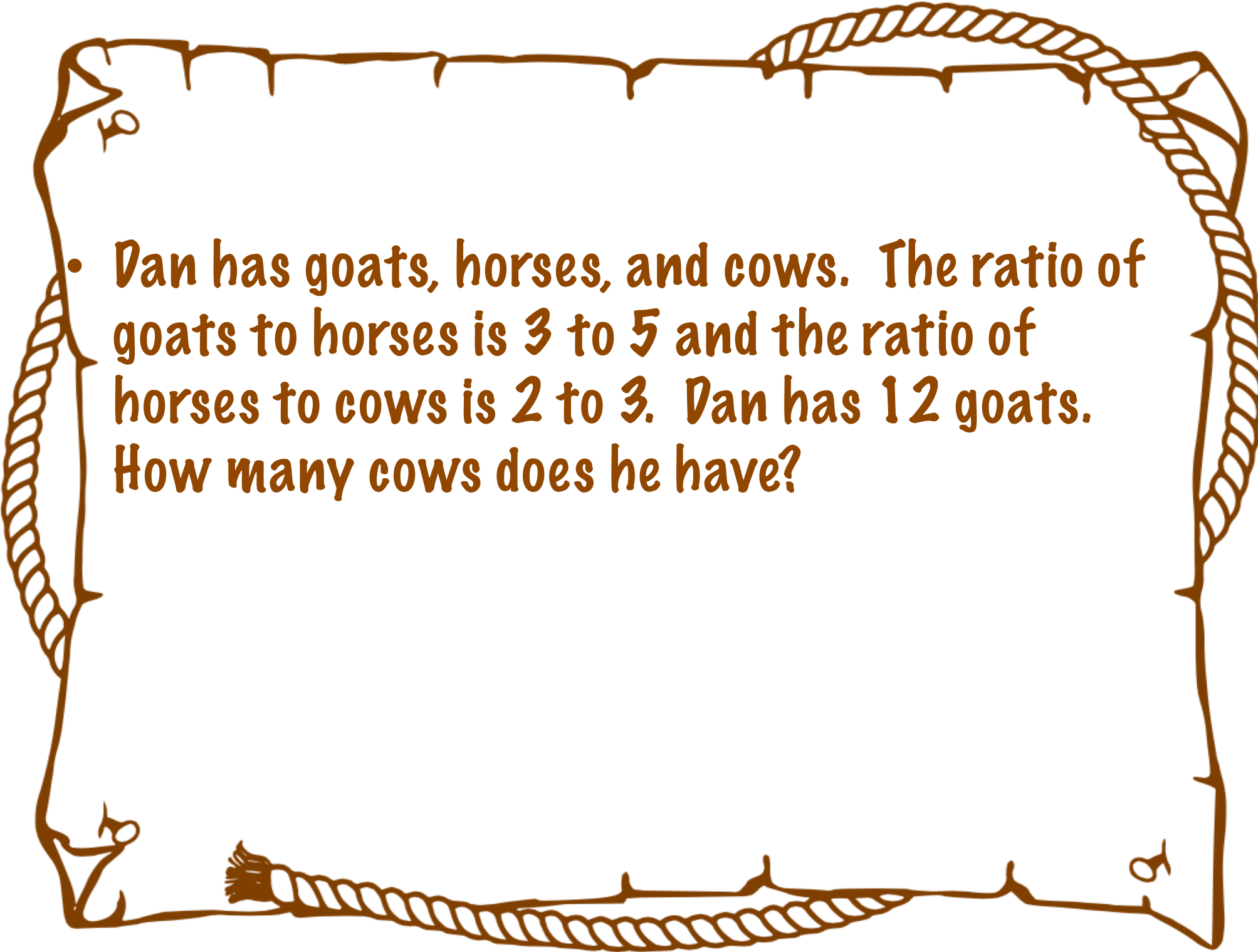
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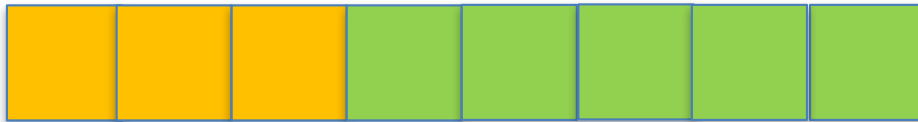
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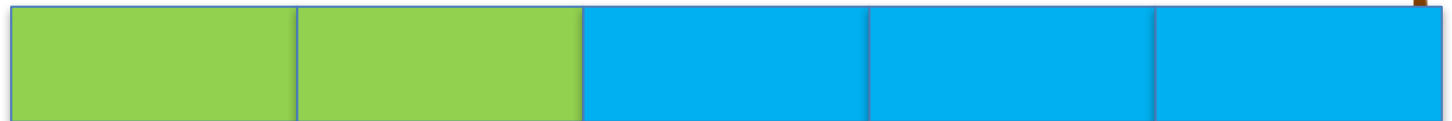
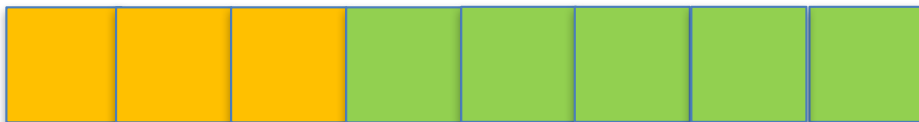
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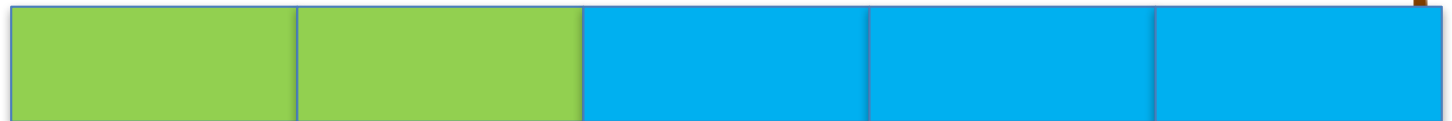
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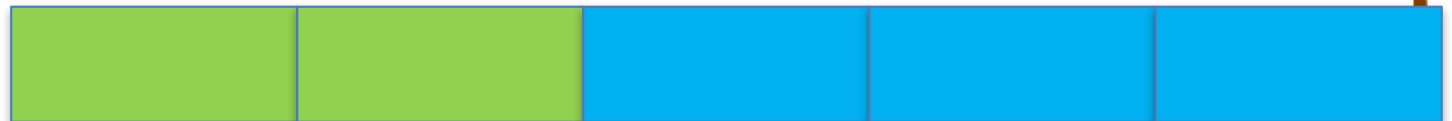
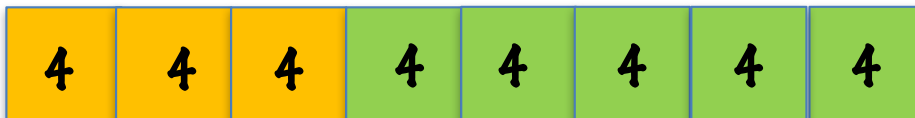
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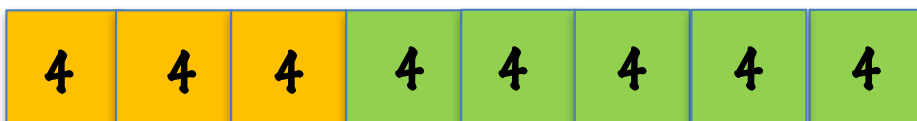
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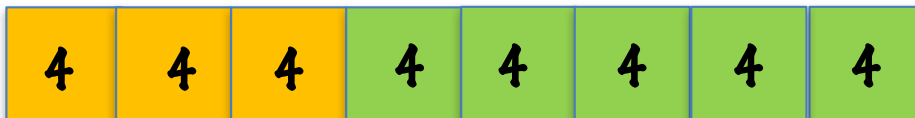
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Oscar P. needs to paint the barns. Of course, they need to be purple. To make purple paint, red and blue paint are mixed in a ratio of 4:3.

- To make the purple paint with 24 quarts of red paint, how many quarts of blue paint will he need?



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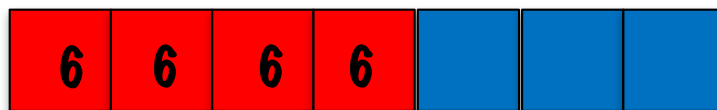
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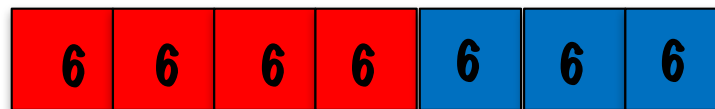
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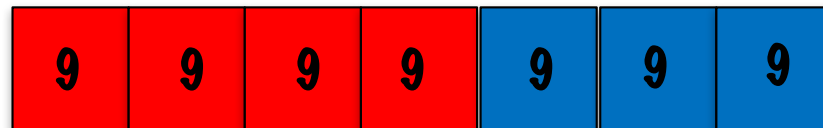
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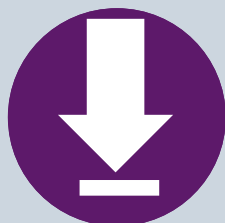


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