Score: _____

Sixth Grade Math Worksheet

Proportion Problems

Total Points: 100

Instructions:

Dear student, here are 5 proportion problems along with a rubric for assessing the assignment. Show your work for full credit and answer each question.

1. Recipe Ratio:

Problem: A recipe requires 3 cups of flour for every 2 cups of sugar. If you have 9 cups of flour, how many cups of sugar do you need?

Set up the proportion:

$$\frac{3}{2} = \frac{9}{s}$$

Solve for s:

$$s = \quad \times$$

$$s =$$

Now, divide both sides by :

$$s = \frac{\square}{\square} =$$

Answer:

You need cups of sugar if you have 9 cups of flour.

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2. Classroom Supplies:

Problem: In a classroom, there are 4 markers for every 5 students. If there are 20 students, how many markers are needed?

Set up the proportion:

$$\frac{\square}{\square} = \frac{\square}{\square}$$

Solve for m:

$$m = \quad \times$$

$$m =$$

Now, divide both sides by :

$$m = \frac{\square}{\square} =$$

Answer:

3. Travel Time:

Problem: A car travels 60 miles in 2 hours. How many miles will it travel in 5 hours at the same speed?

Set up the proportion:

$$\frac{\square}{\square} = \frac{\square}{\square}$$

Solve for h:

$$h = \quad \times$$

$$h =$$

Now, divide both sides by :

$$h = \frac{\square}{\square} =$$

Answer:

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4. Art Project:

Problem: For an art project, you need 3 brushes for every 8 colors of paint. If you have 24 colors of paint, how many brushes do you need?

Set up the proportion:

$$\frac{\square}{\square} = \frac{\square}{\square}$$

Solve for b:

$$b = \quad \times$$

$$b =$$

Now, divide both sides by :

$$b = \frac{\square}{\square} =$$

Answer:

5. Garden Plants:

Problem: A garden has 6 rose bushes for every 4 tulip plants. If there are 24 tulip plants, how many rose bushes are there?

Set up the proportion:

$$\frac{\square}{\square} = \frac{\square}{\square}$$

Solve for r:

$$r = \quad \times$$

$$r =$$

Now, divide both sides by :

$$r = \frac{\square}{\square} =$$

Answer:

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