

## Proportional Relationships

## Ratios and Proportions

## Applying Rates and Ratios

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## Example 1

Use a table to find three equivalent ratios or rates.

1.  $\frac{2}{7}$

2. 7 to 12

3. 96:48

4.  $\frac{69 \text{ miles}}{3 \text{ gallons}}$

5.  $\frac{\$120}{8 \text{ hours}}$

6.  $\frac{9}{4}$

7.  $\frac{\$0.15}{1 \text{ ounce}}$

8. 25:26

## Example 2

9. Marta's car gets  $\frac{78 \text{ miles}}{3 \text{ gallons}}$ , Beth's car gets  $\frac{52 \text{ miles}}{2 \text{ gallons}}$ , and Erik's car gets  $\frac{32 \text{ miles}}{1 \text{ gallon}}$ . Which driver gets the same miles per gallon as Marta?

## Example 3

10. **Sports** Leo runs laps around a track. The table shows how long it takes him to run different numbers of laps. Predict how long it will take Leo to run 7 laps.

Number of Laps	2	4	6	8	10
Time (min)	10	20	30	40	50