

Math Practice Sheets

Solving Proportions

Student Name

Examples

Practice Questions

Extra Challenge Unit

**Unit
18.1****Working with Ratio Tables****Example**

A group of friends is in line to see a movie. 3 friends pay \$10. At this rate, if they paid \$40, how many friends were there?

You can use a ratio table to solve a proportion.
Write the proportion. Use x for the number of friends.

$$\text{So, } \frac{3 \text{ friends}}{\$10} = \frac{x}{\$40}$$

Now, make a ratio table to solve the proportion.

Find ratios equivalent to $\frac{3}{\$10}$.

Multiply both terms of the ratio by 2, 3, 4, and so on, until you find 40.

Number of friends	3	6	9	12
Amount paid (\$)	10	20	30	40

$$\text{i.e. } \frac{3}{10} = \frac{12}{40}$$

∴ If \$40 was paid, there were 12 friends in the line to see a movie.

Exercise

1. Complete the following ratio tables to find equivalent ratios.

a)

8 males	16		32		48
3 females		9		15	

b)

Number in group	2				
Amount paid (\$)	7				

c)

Students	5				
Textbooks	12				