



## Common Core Mathematics Practice for Grade 6

CCSS.Math.Content.6.RP.A.2 - Worksheet #34094

Name: \_\_\_\_\_

Standard: CCSS.Math.Content.6.RP.A.2

Description: Understand the concept of a unit rate  $a/b$  associated with a ratio  $a:b$  with  $b \neq 0$ , and use rate language in the context of a ratio relationship. For example, "This recipe has a ratio of 3 cups of flour to 4 cups of sugar, so there is  $3/4$  cup of flour for each cup of sugar." "We paid \$75 for 15 hamburgers, which is a rate of \$5 per hamburger."

## Solve The Proportion for X (Hard):

1.

$$\frac{x + 10}{13} = \frac{7}{4}$$

6.

$$\frac{x + 5}{1} = \frac{3}{18}$$

2.

$$\frac{x + 9}{9} = \frac{11}{5}$$

7.

$$\frac{12}{7} = \frac{18}{x - 2}$$

3.

$$\frac{3}{x + 11} = \frac{17}{7}$$

8.

$$\frac{18}{17} = \frac{16}{x + 1}$$

4.

$$\frac{17}{x - 12} = \frac{12}{13}$$

9.

$$\frac{2}{9} = \frac{x - 18}{17}$$

5.

$$\frac{8}{16} = \frac{x + 9}{17}$$

10.

$$\frac{x + 14}{1} = \frac{12}{5}$$

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