



## Common Core Mathematics Practice for Grade 6

CCSS.Math.Content.6.RP.A.2 - Worksheet #34068

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.**

$$\frac{x - 6}{10} = \frac{4}{9}$$

**6.**

$$\frac{5}{10} = \frac{x + 3}{11}$$

**2.**

$$\frac{x - 14}{12} = \frac{10}{8}$$

**7.**

$$\frac{x - 2}{14} = \frac{8}{17}$$

**3.**

$$\frac{x - 19}{13} = \frac{12}{18}$$

**8.**

$$\frac{10}{2} = \frac{x + 7}{13}$$

**4.**

$$\frac{16}{x + 9} = \frac{5}{9}$$

**9.**

$$\frac{14}{16} = \frac{9}{x + 13}$$

**5.**

$$\frac{x + 10}{15} = \frac{2}{1}$$

**10.**

$$\frac{x - 15}{3} = \frac{9}{8}$$

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