



## Common Core Mathematics Practice for Grade 6

CCSS.Math.Content.6.RP.A.2 - Worksheet #34078

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.**

$$\frac{16}{5} = \frac{8}{x-1}$$

**6.**

$$\frac{11}{8} = \frac{x-5}{1}$$

**2.**

$$\frac{x-17}{15} = \frac{16}{3}$$

**7.**

$$\frac{12}{18} = \frac{x-2}{20}$$

**3.**

$$\frac{x+6}{20} = \frac{19}{4}$$

**8.**

$$\frac{19}{20} = \frac{2}{x-6}$$

**4.**

$$\frac{12}{x+7} = \frac{20}{13}$$

**9.**

$$\frac{1}{x-11} = \frac{8}{10}$$

**5.**

$$\frac{10}{1} = \frac{9}{x+13}$$

**10.**

$$\frac{10}{12} = \frac{x+2}{15}$$

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