



## Common Core Mathematics Practice for Grade 6

CCSS.Math.Content.6.RP.A.2 - Worksheet #34054

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.**

$$\frac{12}{15} = \frac{13}{x + 12}$$

**6.**

$$\frac{x + 17}{16} = \frac{2}{20}$$

**2.**

$$\frac{20}{1} = \frac{x - 16}{4}$$

**7.**

$$\frac{2}{14} = \frac{x - 1}{20}$$

**3.**

$$\frac{17}{8} = \frac{13}{x + 13}$$

**8.**

$$\frac{x + 15}{13} = \frac{6}{17}$$

**4.**

$$\frac{18}{1} = \frac{x + 17}{20}$$

**9.**

$$\frac{x + 12}{8} = \frac{2}{5}$$

**5.**

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

**10.**

$$\frac{x + 15}{12} = \frac{3}{4}$$

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