



## Common Core Mathematics Practice for Grade 6

CCSS.Math.Content.6.RP.A.2 - Worksheet #34001

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.**

$$\frac{14}{20} = \frac{17}{x + 12}$$

**6.**

$$\frac{5}{19} = \frac{4}{x - 16}$$

**2.**

$$\frac{10}{6} = \frac{18}{x - 15}$$

**7.**

$$\frac{5}{9} = \frac{x - 14}{8}$$

**3.**

$$\frac{4}{7} = \frac{x + 16}{19}$$

**8.**

$$\frac{4}{3} = \frac{x - 20}{20}$$

**4.**

$$\frac{1}{x - 10} = \frac{16}{15}$$

**9.**

$$\frac{3}{1} = \frac{x - 7}{11}$$

**5.**

$$\frac{9}{x + 14} = \frac{6}{7}$$

**10.**

$$\frac{1}{10} = \frac{14}{x - 4}$$

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