

Name: .....

Score: .....

Date: .....

## Equivalent Fraction with Variable

Find the value of the unknown variable in each problem

1)  $\frac{1}{2} = \frac{14}{b}$

$b = \square$

2)  $\frac{1}{6} = \frac{p}{36}$

$p = \square$

3)  $\frac{12}{q} = \frac{24}{16}$

$q = \square$

4)  $\frac{4}{16} = \frac{20}{s}$

$s = \square$

5)  $\frac{9}{4} = \frac{27}{q}$

$q = \square$

6)  $\frac{1}{4} = \frac{10}{m}$

$m = \square$

7)  $\frac{12}{15} = \frac{144}{n}$

$n = \square$

8)  $\frac{25}{d} = \frac{125}{90}$

$d = \square$

9)  $\frac{g}{25} = \frac{4}{5}$

$g = \square$

10)  $\frac{8}{p} = \frac{q}{60}$

i) If  $p = 6$ ,  $q = \square$

ii) If  $p = 1$ ,  $q = \square$

11)  $\frac{m}{3} = \frac{2}{n}$

i) If  $m = 1$ ,  $n = \square$

ii) If  $n = 3$ ,  $m = \square$

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## Equivalent Fraction with Variable

### Answers

$$1) \frac{1}{2} = \frac{14}{b}$$

$$b = \boxed{28}$$

$$2) \frac{1}{6} = \frac{p}{36}$$

$$p = \boxed{6}$$

$$3) \frac{12}{q} = \frac{24}{16}$$

$$q = \boxed{8}$$

$$4) \frac{4}{16} = \frac{20}{s}$$

$$s = \boxed{80}$$

$$5) \frac{9}{4} = \frac{27}{q}$$

$$q = \boxed{12}$$

$$6) \frac{1}{4} = \frac{10}{m}$$

$$m = \boxed{40}$$

$$7) \frac{12}{15} = \frac{144}{n}$$

$$n = \boxed{180}$$

$$8) \frac{25}{d} = \frac{125}{90}$$

$$d = \boxed{18}$$

$$9) \frac{g}{25} = \frac{4}{5}$$

$$g = \boxed{20}$$

$$10) \frac{8}{p} = \frac{q}{60}$$

$$i) \text{ If } p = 6, q = \boxed{80}$$

$$ii) \text{ If } p = 1, q = \boxed{480}$$

$$11) \frac{m}{3} = \frac{2}{n}$$

$$i) \text{ If } m = 1, n = \boxed{6}$$

$$ii) \text{ If } n = 3, m = \boxed{2}$$