

## Assignment 11: Solving Proportions

Date \_\_\_\_\_ Period \_\_\_\_\_

**Solve each proportion.**

1)  $\frac{3}{9} = \frac{5}{n}$

2)  $\frac{12}{k} = -\frac{11}{10}$

3)  $\frac{x}{11} = \frac{6}{3}$

4)  $-\frac{9}{4} = -\frac{6}{p}$

5)  $\frac{n}{6} = -\frac{2}{10}$

6)  $-\frac{8}{2} = \frac{2}{m}$

7)  $\frac{3}{10} = -\frac{5}{r}$

8)  $\frac{11}{x} = \frac{9}{12}$

9)  $-\frac{7}{n} = \frac{4}{8}$

10)  $\frac{7}{8} = \frac{b}{3}$

11)  $\frac{v+8}{6} = \frac{v+2}{9}$

12)  $\frac{x-12}{x-2} = \frac{2}{4}$

13)  $\frac{9}{2} = \frac{n+11}{n-6}$

14)  $\frac{a+9}{9} = \frac{a+10}{12}$

15)  $\frac{k+8}{k+5} = \frac{8}{4}$

16)  $\frac{10}{x+12} = \frac{9}{x-10}$

17)  $-\frac{3}{2} = \frac{p-11}{p-6}$

18)  $\frac{n+10}{2} = \frac{n+4}{3}$

19)  $-\frac{2}{9} = \frac{m+1}{m-9}$

20)  $-\frac{8}{r-10} = \frac{4}{r-11}$

## Assignment 11: Solving Proportions

Date \_\_\_\_\_ Period \_\_\_\_\_

Solve each proportion.

$$1) \frac{3}{9} = \frac{5}{n}$$

$$\{15\}$$

$$2) \frac{12}{k} = -\frac{11}{10}$$

$$\{-10.9\}$$

$$3) \frac{x}{11} = \frac{6}{3}$$

$$\{22\}$$

$$4) -\frac{9}{4} = -\frac{6}{p}$$

$$\{2.66\}$$

$$5) \frac{n}{6} = -\frac{2}{10}$$

$$\{-1.2\}$$

$$6) -\frac{8}{2} = \frac{2}{m}$$

$$\{-0.5\}$$

$$7) \frac{3}{10} = -\frac{5}{r}$$

$$\{-16.66\}$$

$$8) \frac{11}{x} = \frac{9}{12}$$

$$\{14.66\}$$

$$9) -\frac{7}{n} = \frac{4}{8}$$

$$\{-14\}$$

$$10) \frac{7}{8} = \frac{b}{3}$$

$$\{2.62\}$$

$$11) \frac{v+8}{6} = \frac{v+2}{9}$$

$$\{-20\}$$

$$12) \frac{x-12}{x-2} = \frac{2}{4}$$

$$\{22\}$$

$$13) \frac{9}{2} = \frac{n+11}{n-6}$$

$$\{10.85\}$$

$$14) \frac{a+9}{9} = \frac{a+10}{12}$$

$$\{-6\}$$

$$15) \frac{k+8}{k+5} = \frac{8}{4}$$

$$\{-2\}$$

$$16) \frac{10}{x+12} = \frac{9}{x-10}$$

$$\{208\}$$

$$17) -\frac{3}{2} = \frac{p-11}{p-6}$$

$$\{8\}$$

$$18) \frac{n+10}{2} = \frac{n+4}{3}$$

$$\{-22\}$$

$$19) -\frac{2}{9} = \frac{m+1}{m-9}$$

$$\{0.81\}$$

$$20) -\frac{8}{r-10} = \frac{4}{r-11}$$

$$\{10.66\}$$