

## Solving Proportions

**Solve each proportion.**

1)  $\frac{x}{3} = \frac{9}{2}$

2)  $\frac{2}{3} = -\frac{x}{7}$

3)  $\frac{10}{9} = \frac{5}{a}$

4)  $\frac{2}{3} = -\frac{n}{4}$

5)  $\frac{7x+1}{6} = -\frac{6}{3}$

6)  $\frac{6}{4} = \frac{x+4}{9}$

7)  $\frac{10}{5} = \frac{v-8}{8}$

8)  $\frac{x-10}{7} = -\frac{6}{5}$

$$9) -\frac{a}{2a-6} = -\frac{4}{6}$$

$$10) \frac{b+4}{7} = \frac{b}{9}$$

$$11) -\frac{9}{6} = -\frac{x}{x+10}$$

$$12) \frac{3m+9}{m} = \frac{5}{3}$$

$$13) \frac{p-5}{7} = \frac{5p+1}{3}$$

$$14) \frac{x-7}{4} = \frac{x+5}{8}$$

$$15) \frac{7k-5}{10} = \frac{k-1}{5}$$

$$16) \frac{r-1}{7} = \frac{r+3}{9}$$

$$17) \frac{8}{5} = \frac{3n-3}{n+9}$$

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

$$19) \frac{3k+3}{k-6} = -\frac{2}{6}$$

$$20) \frac{6}{9} = \frac{n-3}{n+3}$$

## Answers to Solving Proportions (ID: 1)

1)  $\left\{\frac{27}{2}\right\}$

5)  $\left\{-\frac{13}{7}\right\}$

9)  $\{12\}$

13)  $\left\{-\frac{11}{16}\right\}$

17)  $\left\{\frac{87}{7}\right\}$

2)  $\left\{-\frac{14}{3}\right\}$

6)  $\left\{\frac{19}{2}\right\}$

10)  $\{-18\}$

14)  $\{19\}$

18)  $\left\{-\frac{26}{5}\right\}$

3)  $\left\{\frac{9}{2}\right\}$

7)  $\{24\}$

11)  $\{-30\}$

15)  $\left\{\frac{3}{5}\right\}$

19)  $\left\{-\frac{3}{10}\right\}$

4)  $\left\{-\frac{8}{3}\right\}$

8)  $\left\{\frac{8}{5}\right\}$

12)  $\left\{-\frac{27}{4}\right\}$

16)  $\{15\}$

20)  $\{15\}$