

## One-Step Equations With Decimals

**Solve each equation.**

1)  $p + 8 = 14.1$

2)  $n + 4.7 = -4.7$

3)  $\frac{x}{1.2} = -7$

4)  $n + 3.9 = 0.7$

5)  $-6.3n = -8.19$

6)  $32.663 = p + 11.363$

7)  $n - 25.4 = -44.8$

8)  $28.8 = 18x$

9)  $x - 18 = -36.6$

10)  $m - 21.1 = -36.6$

11)  $\frac{x}{19.7} = 0.609137055838$

12)  $-165.832 = -10.91k$

13)  $\frac{a}{15.9} = -1.79245283019$

14)  $n - 14.7 = 4.7$

$$15) 0.357142857143 = \frac{b}{4.2}$$

$$16) -38.48 = -5.2x$$

$$17) v + 6.6 = 32.1$$

$$18) \frac{p}{9.5} = 2.78947368421$$

$$19) -14.896 = r + 11.704$$

$$20) 21.7 = m - 7.7$$

$$21) -1.55487804878 = \frac{n}{16.4}$$

$$22) n + 15.64 = -13.26$$

$$23) 8.8 = m - 13.4$$

$$24) 26.6 = v + 4.4$$

$$25) 89.7x = -2296.32$$

$$26) -5704.74 = -73.8r$$

$$27) \frac{x}{41.6} = -2.34134615385$$

$$28) b - 43.4 = -120$$

## One-Step Equations With Decimals

Solve each equation.

1)  $p + 8 = 14.1$

{6.1}

2)  $n + 4.7 = -4.7$

{-9.4}

3)  $\frac{x}{1.2} = -7$

{-8.4}

4)  $n + 3.9 = 0.7$

{-3.2}

5)  $-6.3n = -8.19$

{1.3}

6)  $32.663 = p + 11.363$

{21.3}

7)  $n - 25.4 = -44.8$

{-19.4}

8)  $28.8 = 18x$

{1.6}

9)  $x - 18 = -36.6$

{-18.6}

10)  $m - 21.1 = -36.6$

{-15.5}

11)  $\frac{x}{19.7} = 0.609137055838$

{12}

12)  $-165.832 = -10.91k$

{15.2}

13)  $\frac{a}{15.9} = -1.79245283019$

{-28.5}

14)  $n - 14.7 = 4.7$

{19.4}

$$15) 0.357142857143 = \frac{b}{4.2}$$
$$\{1.5\}$$

$$16) -38.48 = -5.2x$$
$$\{7.4\}$$

$$17) v + 6.6 = 32.1$$
$$\{25.5\}$$

$$18) \frac{p}{9.5} = 2.78947368421$$
$$\{26.5\}$$

$$19) -14.896 = r + 11.704$$
$$\{-26.6\}$$

$$20) 21.7 = m - 7.7$$
$$\{29.4\}$$

$$21) -1.55487804878 = \frac{n}{16.4}$$
$$\{-25.5\}$$

$$22) n + 15.64 = -13.26$$
$$\{-28.9\}$$

$$23) 8.8 = m - 13.4$$
$$\{22.2\}$$

$$24) 26.6 = v + 4.4$$
$$\{22.2\}$$

$$25) 89.7x = -2296.32$$
$$\{-25.6\}$$

$$26) -5704.74 = -73.8r$$
$$\{77.3\}$$

$$27) \frac{x}{41.6} = -2.34134615385$$
$$\{-97.4\}$$

$$28) b - 43.4 = -120$$
$$\{-76.6\}$$

## Percent Word Problems

**Solve each problem.**

- 1) What percent of 126 is 22?
- 2) 81 is 56% of what?
- 3) 25.7 is what percent of 141?
- 4) 17% of what is 156?
- 5) 46 is what percent of 107?
- 6) 79.9 is 99% of what?
- 7) 62% of what is 89.3?
- 8) What percent of 137.4 is 96?
- 9) 30% of 117 is what?
- 10) 11 is what percent of 97?
- 11) 120% of 118 is what?
- 12) 25 is what percent of 37?
- 13) What is 270% of 60?
- 14) 73% of what is 156.4?
- 15) 87% of 41 is what?
- 16) 9 is what percent of 84?
- 17) What percent of 88.6 is 70?
- 18) What percent of 137 is 86?

## Percent Word Problems

Solve each problem.

1) What percent of 126 is 22?

17.5%

2) 81 is 56% of what?

144.6

3) 25.7 is what percent of 141?

18.2%

4) 17% of what is 156?

917.6

5) 46 is what percent of 107?

43%

6) 79.9 is 99% of what?

80.7

7) 62% of what is 89.3?

144

8) What percent of 137.4 is 96?

69.9%

9) 30% of 117 is what?

35.1

10) 11 is what percent of 97?

11.3%

11) 120% of 118 is what?

141.6

12) 25 is what percent of 37?

67.6%

13) What is 270% of 60?

162

14) 73% of what is 156.4?

214.2

15) 87% of 41 is what?

35.7

16) 9 is what percent of 84?

10.7%

17) What percent of 88.6 is 70?

79%

18) What percent of 137 is 86?

62.8%

## Proportions

State if each pair of ratios forms a proportion.

1)  $\frac{4}{2}$  and  $\frac{20}{6}$

2)  $\frac{3}{2}$  and  $\frac{18}{8}$

3)  $\frac{4}{3}$  and  $\frac{16}{12}$

4)  $\frac{4}{3}$  and  $\frac{8}{6}$

5)  $\frac{12}{24}$  and  $\frac{3}{4}$

6)  $\frac{6}{9}$  and  $\frac{2}{3}$

Solve each proportion.

7)  $\frac{10}{k} = \frac{8}{4}$

8)  $\frac{m}{10} = \frac{10}{3}$

9)  $\frac{2}{x} = \frac{7}{9}$

10)  $\frac{3}{x} = \frac{7}{10}$

$$11) \frac{4}{9} = \frac{2}{x}$$

$$12) \frac{6}{a} = \frac{3}{8}$$

$$13) \frac{8n}{8} = \frac{8}{3}$$

$$14) \frac{7}{9} = \frac{a}{5}$$

$$15) \frac{p}{8} = \frac{13}{2}$$

$$16) \frac{3}{13} = \frac{v}{3}$$

$$17) \frac{10}{12} = \frac{2}{n}$$

$$18) \frac{11}{10} = \frac{r}{11}$$

$$19) \frac{x}{9} = \frac{7}{14}$$

$$20) \frac{a}{10} = \frac{11}{14}$$

$$21) \frac{v}{12} = \frac{10}{2}$$

$$22) \frac{6}{14} = \frac{5}{n}$$



## Proportions

State if each pair of ratios forms a proportion.

1)  $\frac{4}{2}$  and  $\frac{20}{6}$

No

2)  $\frac{3}{2}$  and  $\frac{18}{8}$

No

3)  $\frac{4}{3}$  and  $\frac{16}{12}$

Yes

4)  $\frac{4}{3}$  and  $\frac{8}{6}$

Yes

5)  $\frac{12}{24}$  and  $\frac{3}{4}$

No

6)  $\frac{6}{9}$  and  $\frac{2}{3}$

Yes

Solve each proportion.

7)  $\frac{10}{k} = \frac{8}{4}$

{5}

8)  $\frac{m}{10} = \frac{10}{3}$

{33.33}

9)  $\frac{2}{x} = \frac{7}{9}$

{2.57}

10)  $\frac{3}{x} = \frac{7}{10}$

{4.28}

$$11) \frac{4}{9} = \frac{2}{x}$$

{4.5}

$$12) \frac{6}{a} = \frac{3}{8}$$

{16}

$$13) \frac{8n}{8} = \frac{8}{3}$$

{2.66}

$$14) \frac{7}{9} = \frac{a}{5}$$

{3.88}

$$15) \frac{p}{8} = \frac{13}{2}$$

{52}

$$16) \frac{3}{13} = \frac{v}{3}$$

{0.69}

$$17) \frac{10}{12} = \frac{2}{n}$$

{2.4}

$$18) \frac{11}{10} = \frac{r}{11}$$

{12.1}

$$19) \frac{x}{9} = \frac{7}{14}$$

{4.5}

$$20) \frac{a}{10} = \frac{11}{14}$$

{7.85}

$$21) \frac{v}{12} = \frac{10}{2}$$

{60}

$$22) \frac{6}{14} = \frac{5}{n}$$

{11.66}

## Fractions and Decimals

Write each as a decimal. Use repeating decimals when necessary.

1)  $\frac{1}{4}$

2)  $2\frac{3}{5}$

3)  $\frac{5}{8}$

4)  $\frac{3}{5}$

5)  $\frac{7}{200}$

6)  $\frac{8}{33}$

7)  $\frac{6}{11}$

8)  $\frac{7}{50}$

9)  $4\frac{27}{125}$

10)  $\frac{7}{20}$

11)  $\frac{1}{111}$

12)  $\frac{1}{125}$

**Write each as a fraction.**

13) 2.2

14) 1.6

15) 0.08

16) 0.27

17) 1.76

18)  $0.\overline{15}$

19)  $0.\overline{3}$

20)  $0.\overline{09}$

21)  $0.\overline{7}$

22)  $0.\overline{46}$

23) 0.005

24) 0.4

## Fractions and Decimals

Write each as a decimal. Use repeating decimals when necessary.

1)  $\frac{1}{4}$

0.25

2)  $2\frac{3}{5}$

2.6

3)  $\frac{5}{8}$

0.625

4)  $\frac{3}{5}$

0.6

5)  $\frac{7}{200}$

0.035

6)  $\frac{8}{33}$

 $0.\overline{24}$ 

7)  $\frac{6}{11}$

 $0.\overline{54}$ 

8)  $\frac{7}{50}$

0.14

9)  $4\frac{27}{125}$

4.216

10)  $\frac{7}{20}$

0.35

$$11) \frac{1}{111} \\ 0.\overline{009}$$

$$12) \frac{1}{125} \\ 0.008$$

Write each as a fraction.

$$13) 2.2$$

$$2\frac{1}{5}$$

$$14) 1.6$$

$$1\frac{3}{5}$$

$$15) 0.08$$

$$\frac{2}{25}$$

$$16) 0.27$$

$$\frac{27}{100}$$

$$17) 1.76$$

$$1\frac{19}{25}$$

$$18) 0.\overline{15}$$

$$\frac{5}{33}$$

$$19) 0.\overline{3}$$

$$\frac{1}{3}$$

$$20) 0.\overline{09}$$

$$\frac{1}{11}$$

$$21) 0.\overline{7}$$

$$\frac{7}{9}$$

$$22) 0.\overline{46}$$

$$\frac{46}{99}$$

$$23) 0.005$$

$$\frac{1}{200}$$

$$24) 0.4$$

$$\frac{2}{5}$$