

NOV Pg 186-187; 17-33(0); 36-39(a)

17) 20

33) 20%

19) 30.8 ft

36) Lincoln: 59%

21) 10

Breckinridge: 24%

23) 84 ft

Bell: 13%

25) \$1000

Douglas: 4%

27) 200

37) 21%

29) 480%

38) 18%

31) 30%

39) 27%

2% of what is \$20.00

$$\frac{P}{W} = \text{---}$$

\$240 is what % of 50

$$\frac{P}{W} = \frac{\quad}{\quad}$$

Past Stuff... *Defⁿ in Abs. Val.*
Distance from Zero.

What are the four steps to solving an equation?
Explain each step.

- ① Simplify → *Dist. Prop. & Comb. Like Terms.*
- ② Collect the Variables → *Get the variables on one side*
- ③ Inverse Opp. → *get the variable by itself*
- ④ Check → *Plug it into the calc.*

Use Inverse Operation and solve for the Variable.

$$\begin{array}{r} y - 15 = -4 \\ +15 \quad +15 \\ \hline y = 11 \\ \hline \hline \end{array}$$

$$7 + x = 3$$

$$\begin{array}{r} t + (+10) = 2 \\ -10 \quad -10 \\ \hline t = 8 \\ \hline \hline \end{array}$$

Use Inverse Operation and solve for the Variable.

$$\cancel{8} \cdot \frac{1}{\cancel{8}} m = -5 \cdot \cancel{8}$$

$$\underline{\underline{m = -40}}$$

$$\frac{81}{\cancel{3}} = \frac{\cancel{3}a}{\cancel{3}}$$

$$\underline{\underline{27 = a}}$$

$$\cancel{4} \cdot \frac{x}{\cancel{4}} = -16 \cdot \cancel{4}$$

$$\underline{\underline{x = -64}}$$

Multi-Step Equations:

$$\underline{9r} - 2 - \underline{6r} = 1$$

$$\begin{array}{r} 3r - 2 = 1 \\ +2 +2 \end{array}$$

$$\begin{array}{r} \hline 3r = 3 \\ \hline 3 \quad \quad 3 \end{array}$$

$$\underline{\underline{r = 1}}$$

$$-2(4 - x) - 7 = 5$$

$$-2(4) - 2(x) - 7 = 5$$

$$\underline{-8} + \underline{-2x} - 7 = 5$$

$$\begin{array}{r} 2x - 15 = 5 \\ +15 \quad +15 \end{array}$$

$$\begin{array}{r} \hline 2x = 20 \\ \hline 2 \quad \quad 2 \end{array}$$

$$\underline{\underline{x = 10}}$$

$$\frac{4}{3} \left(\frac{3}{4} (y + 8) \right) = 9$$

$$\begin{array}{r} y + 8 = 12 \\ -8 \quad -8 \end{array}$$

$$\underline{\underline{y = 4}}$$

Exact and Approx. Answers:

$$3x - 4 = 3$$

$$\begin{array}{r} +4 \quad +4 \\ \hline \end{array}$$

$$3x = 7$$

exact

Ans

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

Approx.

Ans

$$x \approx 2.33$$

$$13.7t - 4.7 = 9.9 + 8.1t$$

One Solution, No Solution, Identity:

$$36 - 4d = 4(9 - d)$$

$$36 - 4d = 4(9) - 4(d)$$

$$\begin{array}{r} 36 - 4d = 36 - 4d \\ +4d \quad \quad +4d \\ \hline \end{array}$$

$$36 = 36$$

Identity

$$12 + 11h = -18 - 4h$$

$$15x - 23 = 15x + 23$$

$$\begin{array}{r} 15x - 23 = 15x + 23 \\ -15x \quad \quad -15x \\ \hline \end{array}$$

$$-23 = 23$$

False...

No Solution

One tomato plant is 12 inches tall and grows 1 inch per week. Another tomato plant is 6 inches tall and grows 2 inches per week. Write and solve an equation to find when the plant will be the same height.

$$\text{Plant 1} = \text{Plant 2}$$

$$12 + 1w = 6 + 2w$$

$$\begin{array}{r} -1w \\ \hline \end{array}$$

$$12 = 6 + w$$

$$\begin{array}{r} -6 \quad -6 \\ \hline \end{array}$$

$$\underline{\underline{6 = w}}$$

Formulas:

$$\frac{V}{wh} = \frac{lwh}{wh} \quad \text{solve for } l$$

$$\frac{V}{wh} = l$$

$$P = a + b + c \quad \text{solve for } b$$

$$P - a = b + c$$

$$P - a - c = b$$

Convert:

98 days to weeks. $7 \text{ days} = 1 \text{ wks}$

$$\begin{array}{|l|l|} \hline 98 \text{ days} & 1 \text{ wk} \\ \hline \cancel{7 \text{ days}} & \cancel{7 \text{ days}} \\ \hline \end{array} = \underline{\underline{14 \text{ wks}}}$$

39 hours to minuets.

$$\begin{array}{|l|l|} \hline & \\ \hline \end{array} =$$

At 60 miles per hour, a car travels 340 miles on 20 gallons of gasoline.

What is the ^{unit Rate} average mileage per gallons of gasoline?

$$\text{unit Rate} \frac{\text{m. lease}}{\text{gal}} = \frac{340}{20} = \underline{\underline{17 \text{ mi/gal}}}$$

How many miles could this car travel on 5 gallons of gasoline at the same speed?

$$17 \cdot 5 = 85 \text{ miles}$$

What percent of the 20 gallons is 5 gallons?

$$\frac{P}{W} = \frac{x}{100} = \frac{5}{20}$$

$$x \cdot 20 = 100 \cdot 5$$

$$x = 25\%$$

O.T.L.

pg 180-181; 1-3; 5-11; 13-19(0); 20, 21, 23-27(0); 28

Tomorrow.