

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.

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

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

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

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

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

Multi-Step Equations:

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

$$3r - 2 = 1$$

$$\begin{array}{r} +2 \quad +2 \\ \hline 3r = 3 \\ \hline 3 \quad 3 \end{array}$$

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

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

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

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

$$2x - 15 = 5$$

$$\begin{array}{r} +15 \quad +15 \\ \hline 2x = 20 \\ \hline 2 \quad 2 \end{array}$$

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

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

$$y + 8 = 12$$

$$\begin{array}{r} -8 \quad -8 \\ \hline \end{array}$$

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

Exact and Approx. Answers:

$$3x - 4 = 3$$

$$+4 \quad +4$$

$$\hline 3x = 7$$

exact

Ans \nearrow

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

Approx.

Ans \nearrow

$$x \approx 2.33$$

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

One Solution, No Solution, Identity:

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

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

$$36 - 4d = 36 - 4d$$

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

Identity

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

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

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

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.

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

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

$$\begin{array}{r} 12 + 1w = 6 + 2w \\ -1w \quad \quad -1w \\ \hline \end{array}$$

$$\begin{array}{r} 12 = 6 + w \\ -6 \quad -6 \\ \hline \end{array}$$

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

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.

$$\boxed{7 \text{ days}} = \boxed{1 \text{ wk}}$$

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

(Note: The diagram shows a cancellation process. A wavy line under the '98' and a vertical line under the '7' in the denominator below it indicate the division. The '1' in the numerator and the '7' in the denominator are circled in purple.)

39 hours to minutes.

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

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

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

$$\text{Unit Rate} \frac{\text{mileage}}{\text{gal}} = \frac{340}{20} = \underline{\underline{17 \text{ mi/gal}}}$$

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

$$\frac{17 \text{ m}}{1 \text{ gal}} \cdot 5 \text{ gal} = \underline{\underline{85 \text{ miles}}}$$

What percent of the 20 gallons is 5 gallons?

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

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

$$\underline{\underline{x = 25\%}}$$

O.T.L.

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

Tomorrow.