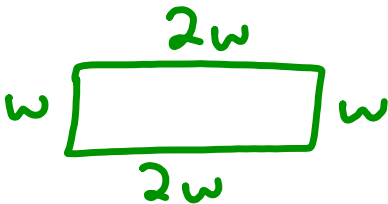


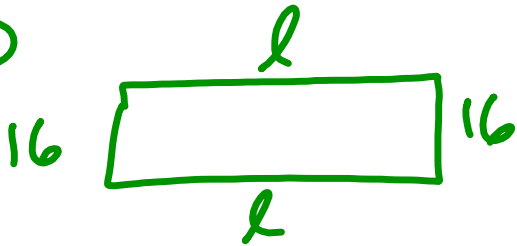
## HW Solutions

②



$$w + 2w + w + 2w = 6w$$

④



$$16 + l + 16 + l = 80$$

$$2l + 32 = 80$$
$$\begin{array}{r} -32 \\ -32 \end{array}$$

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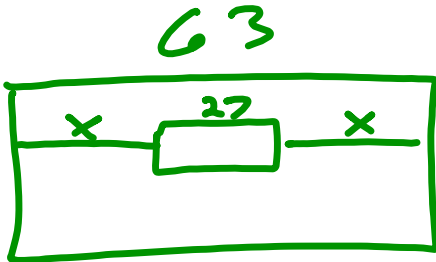
$$2l = 48$$

$$\frac{2l}{2} = \frac{48}{2}$$

$$l = 24$$

24ft

⑥



18 in

$$\begin{aligned}x + 27 + x &= 63 \\2x + 27 &= 63 \\- 27 &- 27 \\ \hline 2x &= 36 \\ \frac{2x}{2} &= \frac{36}{2} \\ x &= 18\end{aligned}$$

Q3

$$3c + c = 11.20$$

$$\frac{4c = 11.20}{4 \quad \quad 4}$$

$$c = 2.8$$

$$\text{\$ } 2.80$$

$$\begin{array}{r} 28 \\ 4 \overline{) 11.20} \\ \underline{-8 \downarrow} \\ 32 \\ \underline{-32} \\ 0 \end{array}$$



You went to the grocery store and bought a rotisserie chicken and three bottles of soda. If the chicken costs \$8 and your total bill was \$15.80, how much does a bottle of soda cost?

$$\begin{array}{r} 3s + 8 = 15.80 \\ -8 \quad -8 \\ \hline 3s = 7.80 \\ \frac{3s}{3} = \frac{7.80}{3} \\ s = \text{\$}2.60 \end{array}$$

$$\begin{array}{r} 2.60 \\ 3 \overline{) 7.80} \\ \underline{-6} \phantom{0} \\ 18 \\ \underline{-18} \\ 0 \end{array}$$

$$-10 = 2 - 3x$$

$$\begin{array}{r} -2 \quad -2 \\ \hline \end{array}$$

$$\begin{array}{r} -12 = -3x \\ \hline -3 \quad -3 \end{array}$$

$$\begin{array}{r} \hline 4 = x \end{array}$$

$$\frac{4}{5}x - 2 = 9$$

$+2 \quad +2$

$$\frac{5}{4} \left( \frac{4}{5}x \right) = (11) \frac{5}{4}$$

$$x = \frac{55}{4} = 13\frac{3}{4}$$



Factor.

$$20xy - 6y$$

$$2y(10x - 3)$$

Simplify.

$$\underline{-3x} + 8 + \underline{6y} - \underline{5x} - \underline{9y}$$

$$-8x - 3y + 8$$

$$\begin{array}{r} 1 \\ 13.22 = -1.9 + 4.2n \\ + 1.9 \quad + 1.9 \end{array}$$

$$\begin{array}{r} 15.12 = 4.2n \\ \hline 4.2 \quad \quad 4.2 \end{array}$$

$$\textcircled{3.6 = n}$$

$$\begin{array}{r} 3.6 \\ 42 \overline{) 151.2} \\ \underline{-126} \downarrow \\ 252 \\ \underline{-252} \\ 0 \end{array}$$

Simplify.

$$-7 - 2(3x + 5)$$

$$\underline{-7} - 6x - \underline{10}$$

$$\textcircled{-6x - 17}$$



Simplify.

$$3\frac{3}{4}x - \frac{5}{7}y - 5\frac{1}{2}x$$

Write and simplify an expression to represent the following:

The perimeter of a rectangle that is five times as long as it is wide.

$$8 - w = -5$$



Simplify.

$$-\frac{4}{5} + \frac{2}{3}(4c + 5)$$

Bob and Gina went to Walmart last night. Bob bought a frozen pizza and three steaks. Gina bought a frozen pizza and 2 steaks. If frozen pizzas cost \$8.50 and their total bill was \$48.50, how much did each steak cost?

Ellie and James collect Pokemon cards. Ellie has 6 less than twice as many as James. If Ellie has 38 cards, how many does James have?

$$8 = 6 - \frac{n}{3}$$

Alex makes \$9 per hour at his job and is saving up for a computer that costs \$1115. If he already has \$512 saved up, how many hours will he need to work before he can buy the computer?

Factor.

$$4x^2y - 8xy + 60y$$

You went to a farm stand with your friend. You picked out 5 apples and 2 peaches. Your friend got 3 apples and 1 peach. Write and simplify an expression to represent the total bill.

January 11, 2022

