

HW: Worksheet/2, 4, 8, 10, 12, 16

Warm up:

George wants to cash his \$280 paycheck for an equal number of \$5 bills, \$20 bills, and \$50 bills. How many of each kind of bill will he get?

	\$	#	total \$
\$5	5	x	5x
\$20	20	x	20x
\$50	50	x	50x

$$5x + 20x + 50x = 280$$

$$\frac{75x = 280}{75 \quad 75}$$

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$$x = 3.73333\bar{3}$$

no solution

Over the course of a year, the sum of an investor's gains and losses was \$1000. What were his gains that year? What were his losses?

no solution
not enough information

Find three consecutive odd integers whose sum is 24 more than the greatest of the three integers.

$$x + x + 2 + x + 4 = x + 4 + 24$$

$$3x + 6 = x + 28$$

$$\begin{array}{r} 3x + 6 = 28 \\ -x = -x \\ \hline 2x + 6 = 28 \end{array}$$

$$\begin{array}{r} 2x + 6 = 28 \\ -6 -6 \\ \hline 2x = 22 \\ \frac{1}{2}x = \frac{11}{1} \quad x = 11 \end{array}$$

11, 13, 15

Ben weighs 30 lb more than Ann, and their canoe weighs twice as much as Ben. If their canoe weighed 20 lb less, its weight would equal the sum of Ann's and Ben's weights. How much do Ann, Ben, and the canoe each weigh?

$$\text{Ann} \rightarrow a$$

$$\text{Ben} \rightarrow a + 30$$

$$\text{Canoe} \rightarrow 2(a + 30) = 2a + 60$$

$$2a + 60 - 20 = a + a + 30$$

$$2a + 40 = 2a + 30$$

$$\begin{array}{r} -2a \quad \quad -2a \\ \hline 40 = 30 \end{array}$$

no solution

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⑦

	r	t	d
message 1	51	$\frac{5}{3}$	85
man 2	X	1	X

$$X = 85$$
$$\textcircled{85 \text{ km/h}}$$

①

	r	t	d
$S \rightarrow C$	e	t	
$C \rightarrow S$	$e+5$	$t-15$	

no solution
not enough info

(13)

	r	t	d
frank's	42	1.5	63
ronal	x	3.5	3.5x

49 mi/h for 5h
 $49 \cdot 5 = 245 \text{ mi}$

52 mi/h

$$\begin{array}{r} 63 + 3.5x = 245 \\ -63 \\ \hline 3.5x = 182 \end{array}$$

$$\begin{array}{r} 3.5x = 182 \\ \underline{3.5} \quad \underline{3.5} \\ x = 52 \end{array}$$

