

3.1 Solving equations - Addition property

$$\begin{array}{rcl} x + 6 = 12 & & \textcircled{4} \quad a=b \\ -6 \quad -6 & & a+c=b+c \\ \hline x+0=6 & & \frac{a}{3}=b \\ x=6 & & \textcircled{5} \quad \frac{a}{c}=\frac{b}{c} \\ & & 6+6=12 \\ & & 12=12 \checkmark \\ & & \textcircled{6} \end{array}$$

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3.2 - Solving Equations - multiplication property

$$\begin{array}{rcl} 3x=12 & & \textcircled{4} \quad a=b \\ \frac{1}{3}(3x)=\frac{1}{3}(12) & & \frac{a}{c}=\frac{b}{c} \\ x=4 & & 3(4)=12 \\ & & 12=12 \checkmark \end{array}$$

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$$\begin{array}{rcl} \frac{1}{3}x = \frac{6}{1} & & \frac{6}{1} \quad 6 \div \frac{1}{3} \\ \frac{1}{3} \quad \frac{1}{3} & & 6 \cdot \frac{3}{1} \\ x = 18 & & 18 \\ & & \frac{1}{3}(18) \div 6 \\ & & 6 \div 6 \end{array}$$

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3.3 - Solving Equations - add and mult properties

$$\begin{array}{rcl} 2x+6=14 & & 2(4)+6 \div 14 \\ -6 \quad -6 & & 8+6 \div 14 \\ \hline 2x=8 & & 14 \div 14 \\ \frac{2}{2} \quad \frac{2}{2} & & \\ x=4 & & \end{array}$$

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pp71 #20)

$$\begin{array}{rcl} -5x+7x+2=-14 & & \\ 2x+2=-14 & & \\ -2 \quad -2 & & \\ \hline 2x=-16 & & \\ \frac{2}{2} \quad \frac{2}{2} & & \\ x=-8 & & \\ & & \end{array}$$

$$\begin{array}{rcl} -5(-8)+7(-8)+2 & & \\ 40-56+2 & & \\ -16+2 & & \\ -14 \quad \textcircled{7} & & \end{array}$$

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3.5 - Language of Algebra

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examples 1,2,3

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12 increased by 6

$$12 + 6$$

4 increased by (3 times some number)

$$4 + 3x$$

? less than 10
 $10 - ?$

12 less than 3 times some num

$$3x - 12$$

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pg 75 14) 5 more than twice a number

$$5 + 2x$$

18) 14 less than three times a number

$$3x$$

$$3x - 14$$

3.6 - Steps for solving word problems

Read: Identify what is given and what you are looking for

Plan: pick variable names and write an equation

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Solve the equation :)

Check the solution and determine if the solution is Reasonable.

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pg 79 #3)
 less than
 $B - 20 = 50$
 less than
 $+20 \quad +20$
 $B = 70$

$70 - 20 = 50$
 $50 = 50 \checkmark$

#3) $2H - 2 = 72$
 $+2 \quad +2$
 $\underline{2H} = \underline{74}$
 $H = 37$

$2(37) - 2 = 72$
 $74 - 2 = 72$
 $72 = 72$

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cost = what the seller paid
price = what you pay
profit = price - cost

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18) M - Mac's mass

$$5 + 3M - 2M = 60$$
$$5 + M = 60$$
$$M = 55 \text{ kg}$$

"Hi 

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Chapter 3 homework
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3,5,11,17,22,27,30

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