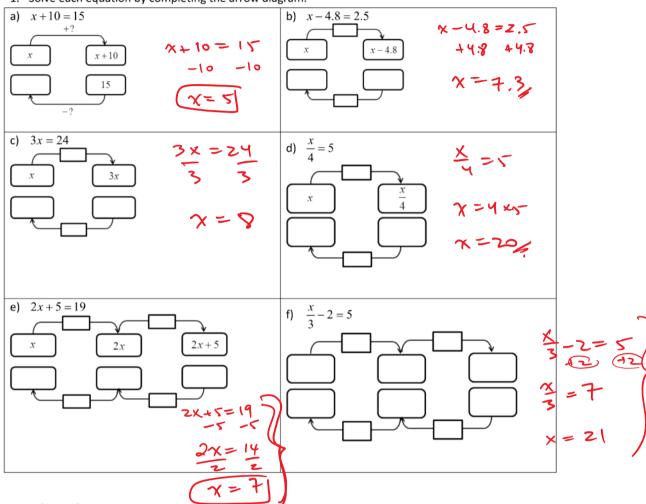
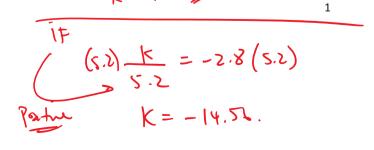
## Math 9 HW: Chapter 6.1 – Solving Equations Using Inverse Operations

1. Solve each equation by completing the arrow diagram.



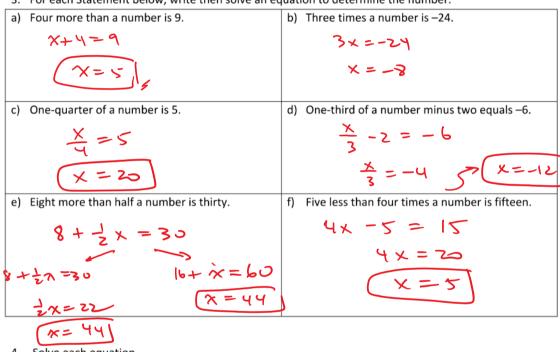
2. Solve each equation.

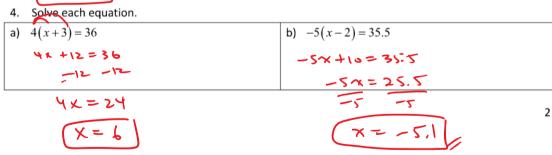
a) $3.2y = 15.36$	b) $-2.6x = 9.88$
y= 15.36 & y=4.8	-2.6 -2.6 X = -3.8,
c) $\frac{m}{1.6} = 6.2$	d) $-\frac{k}{5.2} = -2.8$
m=6.2x1.6 m=9.92/	(-81) K = -2.8(-5.2)
	K = 14.56

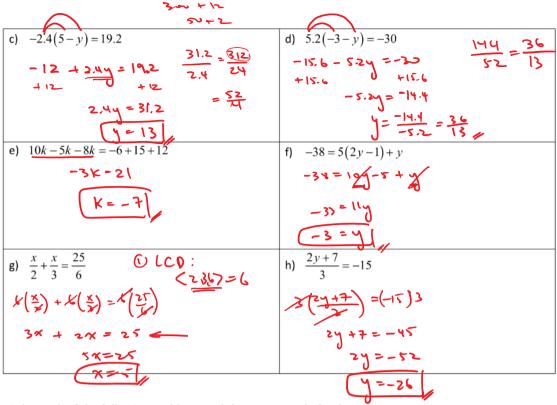


e) $5x-13=17$	f) $2.4x + 6.3 = -17.7$
37 = 30	24x=-24
X=L	x=-10/
g) $\frac{x}{5} + 9 = 12$	h) $\frac{y}{3.5} - 1.2 = 2.8$
$\frac{x}{5} = 3$	<u>₩</u> = 4
A= 15	4-14

3. For each Statement below, write then solve an equation to determine the number.







Solve each of the following problems and show your work clearly.

5. Vancouver has three times the annual snowfall of Tokyo. Together, they have a total of 80 cm of snow a year. What is Tokyo's annual snowfall?

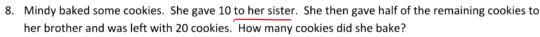
6. Two less than the triple the width of a rectangle is 13. Determine the width.

Mb-m:  $W \rightarrow 3W-2=13$ RESIDENTS W=5

7. One year, Alberta had <u>301 forest fires</u> more than <u>Manitoba</u>. The total number of forest fires in these two provinces was 1596. How many forest fires did Manitoba have?

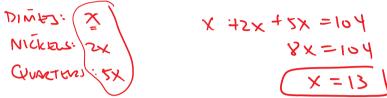
ALBURTA: (X+301)
MANITURA: X

(x+301)+x=|596 2x+301=|596 2x=|295 x=|295 x=647.5

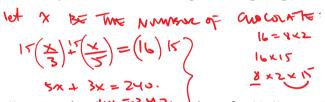




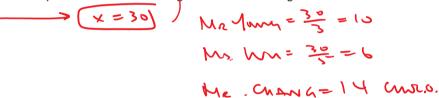
9. A vending machine contains a total of 104 coins. It contains twice as many nickels as dimes and 5 times as many quarters as dimes. Determine the number of dimes in the vending machine.



- 10. Mr. Young ate  $\frac{1}{3}$  of Mr. Chang's chocolates on Monday. Ms. Wu ate  $\frac{1}{5}$  of Mr. Chang's chocolate on the same day. Together they ate 16 chocolates.
  - a. How many chocolates did Mr. Chang have in beginning?



b. How many chocolates aid Mr. Chang have after Mr. Young and Ms. Wu fulfilled their craving?



11. John earns \$180 for a day's work. That amount is \$30 less than 3 times the money Amanda earns for a day's work. How much does Amanda earn for a 5 day week?

