

whole + whole = whole
 $\underline{-} \quad \times \quad \underline{\quad}$
 closed set

62. whole - whole = whole

$$3 - 1 = 2$$

counterexample: $(1 - 3 = -2)$ false . $\{-3, -2, -1, 0, 1, 2, 3\}$

64. integer \div integer = integer

counter examples: $\left\{ \begin{array}{l} 4 \div 3 = 1.\overline{3} \\ 9 \div 12 = \frac{3}{4} \end{array} \right.$ false not closed under division

74.) subtraction
difference
minus
take away
less than

1-7 Writing Expressions and Equations

$$g = \# \text{ of guests}$$
$$8g$$

1. define the variable

look at the question

what are you trying to solve?

h = Ryan's height

a) $h - 4 = 58$

b) n = number

$$6n = 30$$

P. 41
3.)

$$T = T_{\text{ina}}$$

4.) $T - 18$
 $n = \text{number}$

$$T - n$$

$$5.) n \div 9 \\ n = \text{number} \quad \frac{n}{9}$$

$$6.) n = \text{number} \\ 6 + n = 2$$

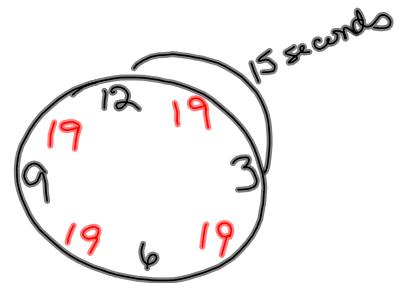
$$7.) p = \text{people} \\ \frac{p}{5} = 3$$

IS
= of
X

20.)

 $n = \text{number of heartbeats in 15 seconds}$

$$4n$$



10.) $\frac{a}{2}$ or $\frac{1}{2}a$ one-half of allowance