

$$\begin{array}{c} \underline{\text{whole}} + \underline{\text{whole}} = \underline{\text{whole}} \\ \times \\ \text{closed set} \end{array}$$

62. whole - whole = whole

$$3 - 1 = 2$$

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

64. integer  $\div$  integer = integer

counterexamples:  $\begin{cases} 4 \div 3 = 1.\overline{3} \\ 9 \div 12 = \frac{3}{4} \end{cases}$  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?

a)  $h = \text{Ryan's height}$   
 $h - 4 = 58$

b)  $n = \text{number}$   
 $6n = 30$

p. 41

3.)

$$T = \text{Tina}$$

4.)

$$T = 18$$

$$n = \text{number}$$

$$7 - n$$

$$5.) \begin{array}{l} n \div 9 \\ n = \text{number} \end{array} \quad \frac{n}{9}$$

$$6.) \begin{array}{l} n = \text{number} \\ 6 + n = 2 \end{array}$$

$$7.) \begin{array}{l} p = \text{people} \\ \frac{p}{5} = 3 \end{array}$$

$\frac{15}{=}$        $\frac{of}{x}$

20.)

$n$  = number of heartbeats in 15 seconds  
 $4n$





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