

1.2 & 1.3 Quiz Review

Write a numerical expression for each verbal phrase.

a.) eighteen marbles divided equally among six friends

$$18 \div 6$$

b.) the total number of photos if there are nine photos in an album plus four more

$$9 + 4$$

Write a numerical expression for each verbal phrase.

c.) the cost of six electronic handheld games if each costs eight dollars

$$6 \times 8$$

d.) the cost of one box of cereal if four boxes cost twelve dollars

$$12 \div 4$$

Evaluate each expression.

a.)  $17 + 36 \div 9$

$$17 + 4$$

$$\textcircled{21}$$

b.)  $24 \div 8 \times 3$

$$3 \times 3$$

$$\textcircled{9}$$

Evaluate each expression.

c.)  $5(4 + 6) - 7 \times 7$

$$5(10) - 7 \times 7$$

$$50 - 7 \times 7$$

$$50 - 49$$

$$\textcircled{1}$$

d.)  $\frac{49 + 31}{19 - 14} = \frac{80}{5} = \textcircled{16}$

$$\begin{array}{r} 16 \\ 5 \overline{) 80} \\ \underline{- 50} \phantom{0} \\ 30 \\ \underline{- 30} \\ \hline 0 \end{array}$$

Evaluate each expression.

e.)  $3[(18 - 6) + 2(4)]$

$$3[12 + 2(4)]$$

$$3[12 + 8]$$

$$3[20] = 60$$

f.)  $5[11 - (7 + 5) \div 4]$

$$5[11 - 12 \div 4]$$

$$5[11 - 3]$$

$$5[8] = 40$$

Translate each phrase into an algebraic expression.

a.) thirteen more students than teachers     let  $a$  be teachers.  
 $13 + a$

b.) twenty-four pieces of candy divided among some students     let  $s$  be students.  
 $24 \div s$

c.) the number of inches in any number of feet     let  $f$  be feet.  
 $12 \cdot f$

d.) four less than the amount of cents in a number of dimes

Evaluate each expression if  $a = 9$ ,  $b = 4$ , and  $c = 11$ .

a.)  $13 - a$

$$13 - 9$$

$$\downarrow$$

$$(4)$$

b.)  $18 + 4b$

$$18 + 4(4)$$

$$\downarrow$$

$$18 + 16 = (34)$$

c.)  $7b - 2c$

$$7(4) - 2(11)$$

$$\downarrow \quad \downarrow$$

$$28 - 22 = (6)$$

d.)  $6c - 2a + 6b$

$$6(11) - 2(9) + 6(4)$$

$$\downarrow \quad \downarrow \quad \downarrow$$

$$66 - 18 + 24$$

$$\downarrow$$

$$46 + 24$$

$$\downarrow$$

$$(70)$$

e.)  $\frac{8a}{b} = \frac{8(9)}{4}$

$$= \frac{72}{4}$$

$$= (18)$$

f.)  $\frac{ac}{3} - 15 = \frac{(9)(11)}{3} - 15$

$$= \frac{99}{3} - 15$$

$$= 33 - 15$$

$$= (18)$$