Algebra 1A 1.1 $n + 6$

Translate words into algebraic expressions and equations

algebraic expression

variable + numbers x, y, a, b, n l t s

numerical expression   only numbers

factor   numbers to mult

product = mult

quotient = division

sum   +

difference −

equation $x + 3$ $x + 3 = 5$ Solved

activity (if time?) I have, who has

(handwritten: p. 4)

Addition	Subtraction	Multiplication	Division
plus	minus	times	divided by
the sum of	the difference of	the product of	the quotient of
increased by	decreased by	multiplied by	the ratio of
more than	less than	at	per
added to	fewer than	of	
the total of	subtracted from		

(handwritten: $\frac{1}{2} \cdot 8 = 4$)

(handwritten: $\frac{500}{10} = 50 \frac{mi}{hr}$)

Write an algebraic expression for each verbal expression.

❶ " the sum of _m_ and 18 "

(handwritten: $m + 18$)

❷ _g_ divided by _y_

(handwritten: $g \div y$ $\frac{g}{y}$ ")

Some kangaroos can travel 30 feet in a single leap.

❸ Write a numerical expression to represent the distance a kangaroo can travel if it leaps 4 times.

$30 \cdot 4$ or $30(4)$

❹ Write an algebraic expression to represent the distance a kangaroo can travel if it leaps _x_ times.

$30 \cdot x$ or $30x$

(handwritten:
$30 \cdot 4$
30×4 *(crossed out)*
$30(4)$
$(30)(4)$

$30 \cdot x$ $30x$
$x \cdot 30$ $x \, 30$
)

Write a verbal expression for each algebraic expression.

a number

5 $32 - b$

6 $(y \div 4) + 9$

The difference of 32 and b

The quotient of y and 4 increased by 9.

~~PEMDAS~~

GemA

Your Turn

c. $15v$

d. $r - \frac{t}{d}$

$\frac{t}{d} - r$

p.7   14-32 even

Equality	
equals	is equal to
is	is the same as
is equivalent	is as much as
to	is identical to

thrice
_3x_

_k/4_

_k14_

Write an equation for each sentence.

7 Three times _g_ equals 21.

$3g = 21$

8 Five more than <u>twice</u> _n_ is 15.

$5 + 2n = 15$

Your Turn

e. A number _k_ divided by 4 is equal to 18.

$k \div 4 = 18$

$\dfrac{k}{4} = 18$

Write a sentence for each equation.

9 $x - 2 = 14$

10 $7y + 6 = 34$

Equality	
equals	is equal to
is	is the same as
is equivalent to	is as much as
	is identical to

Your Turn

f. $4b - 5 = 3$