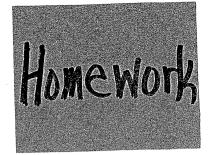
Write Algebraic Expressions

Word problems use expressions that you can write with symbols. An **algebraic expression** has at least one variable. A **variable** is a letter or symbol that represents one or more numbers. Writing algebraic expressions for words helps you solve word problems.



These are a few common words that are used for operations.

add (+)
sum
increased by
plus
more than

subtract (-)
difference
minus
decreased by
less
less than

multiply (×)
product
times

divide (÷) quotient divided by

17 more than x

x + 17

four times the sum of 7 and n $4 \times (7 + n)$

"More than" means add.

"17 more than x" means add 17 to x.

"Times" means multiply.

"Sum" means add.

The words mean multiply 4 by (7 + n).

A number next to a variable always shows multiplication.

For example, 5n means the same as $5 \times n$.

Write an algebraic expression for the word expression.

1. *b* divided by 9

2. c more than 5

3. d decreased by 29

4. 8 times *g*

5. *p* increased by 12

- 6. the quotient of k and 14
- 7. 17 less than the product of 3 and *m*
- 8. 2 less than the quotient of d and 16

Name:

You may use a calculator

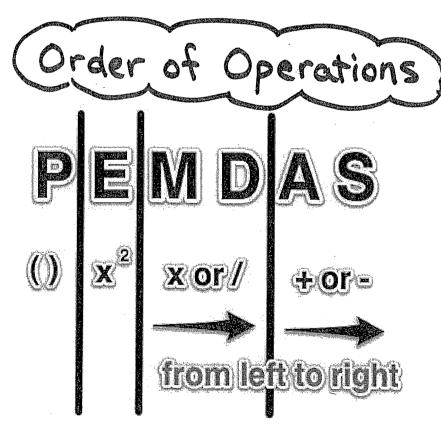
Order of Operations

1)
$$(12 + 3) + 20 \div 10$$

$$6) (14 + 18) \div (8 - 4)$$

$$2)(12+22-6)\div 14$$

$$7)(16 - 3) + 15 \div 3$$



Parenthesis

Exponents Multiplication

Division Subtraction