

Letters Equal Numbers

Example

Evaluate the expression when $a = 5$.

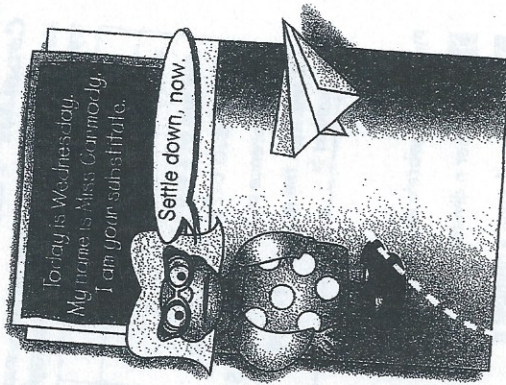
$6a - 4$

- Substitute the value of the variable in the expression.
- Evaluate the expression following the order of operations.

So, when $a = 5$, $6a - 4 = 26$.

Evaluate the expression when $a = 5$, $m = 2$, or $d = 6$.

- $a + 5$
- $50 - 11m$
- $15 - m$
- $4m$
- $m^5 + 15$
- $\frac{10}{a} + 3$
- $51 - 2d$
- $2 + a^2$
- $(6 \cdot d) - 4$
- $24 + m$
- 4 more than the product of 4 and a number a
- 54 divided by a number d



Answer Box

A	10	B	8	C	13	D	32	E	28	F	5
G	39	H	12	I	47	J	24	K	9	L	27

Objective: Use a whole number to evaluate an expression.

Write It Another Way

Consider This

An algebraic expression uses variables, numbers, and operation signs to represent situations. Here are some examples of algebraic expressions.

WORD PHRASE	ALGEBRAIC EXPRESSION
a number n divided by 3	$n \div 3$ or $\frac{n}{3}$
the sum of 2 and a number x	$2 + x$
the product of 7 and a number y	$7y$, $7 \cdot y$, or $7(y)$
the difference of a number m and 5	$m - 5$
4 less than the product of 6 and a number b	$6b - 4$

Find the algebraic expression for the phrase.

- a number n divided by 6
- 7 less than the product of 6 and 9
- the sum of 6 and a number n
- 6 less than the product of 7 and 9
- 6 divided by n
- a number g increased by 7
- the difference of a number g and 7
- 8 times w
- 8 more than 3 divided by a number w
- 6 less than n
- the number of students in a classroom that seats n students if 8 seats are empty
- the number of students in a class of n students after 8 new students enroll

Answer Box

A	$g + 7$	B	$8 \cdot w$	C	$6 + n$	D	$n - 8$	E	$7g - 6$	F	$n - 6$
G	$n + 8$	H	$6g - 7$	I	$\frac{6}{n}$	J	$(3 + w) + 8$	K	$g - 7$	L	$n + 6$