$$a + 5$$

Algebra 1.1

Write verbal expressions for algebraic expressions
Write algebraic expressions for verbal expressions

$$n + 15$$

algebraic expression
variable
term
factor $3 \cdot 5$
product $= 15$
power
exponent base
quotient $\div$

Quiz today 0.11-0.13

EXAMPLE 1 **Write Verbal Expressions** GEMA

Write a verbal expression for each algebraic expression.

a. $3x^4$ The product of 3 and x raised to 4th power

b. $5z^2 + 16$ $5z + 16$

(The product of 5 and z squared) plus (16 increased by 16)

Check Your Progress

1A. $16u^2 - 3$

16 and

Product of u to the 2nd decreased by 3

1B. $\frac{1}{2}a + \frac{6b}{7}$

product of $\frac{1}{2}$ times a add to the quotient of 6b and 7

Key Concept

Translating Verbal to Algebraic Expressions

Operation	Verbal Phrases
Addition	more than, sum, plus, increased by, added to
Subtraction	less than, subtracted from, difference, decreased by, minus
Multiplication	product of, multiplied by, times, of
Division	quotient of, divided by

EXAMPLE 2 Write Algebraic Expressions

Write an algebraic expression for each verbal expression.

a. a number *n* more than 6

$$6 + n$$
$$n + 6$$

$$\frac{1}{3} \cdot a = \frac{1}{3}a$$

$$\frac{1}{3} \times a$$

Check Your Progress

2A. the product of *p* and 6

$$6 \cdot p = 6p$$

2B. one third of the area *a*

Write a verbal expression for each algebraic expression.

1. $2m$

2. $\frac{2}{3}r^4$

3. $a^2 - 18b$

Write an algebraic expression for each verbal expression.

4. the sum of a number and 14

5. 6 less a number t

6. 7 more than 11 times a number

7. 1 minus the quotient of r and 7

8. two fifths of a number j squared

9. n cubed increased by 5