

9/21/14

1-1 Variables & Expressions

• Variable: a letter used to represent a #

(ex.) x, y, c, z, \dots

• algebraic expression:

an expression w/ numbers and variables (NO = sign)

(ex.) $5x, 3-2x, \frac{x}{y} + 4$

$$\sqrt[3]{4}$$

4 3 ← exponent / power of
↑ base

Write an algebraic expression for each verbal expression.

① ⁸ eight ⁺ [more than] a number ^x x

$$x + 8$$

② ⁷ 7 ⁻ [less than] the number ^x x

$$x - 7$$

③ the product of ⁵ 5 and a number ^p p

$$5p$$

$$5 \times p$$

$$5 \cdot p$$

$$5(p)$$

④ ⁶ 6 ⁺ [more than] the product of ⁴ 4 and a number ^x x

$$4x + 6$$

$$4(x) + 6$$

⑤ ⁸ 8 [less than] the quotient of ^x x and ³ 3.

$$\frac{x}{3} - 8$$

$$(x \div 3) - 8$$

* Write a verbal expression for each algebraic expression.

① $4m^3$

The product of four and the number m cubed.

② $21d + z$

The product of 21 and the number d ~~is~~ plus the number z