

Variables and Expressions (1-5)

| | |
|---|--|
| <i>variable</i> | Decode <i>var·i·able</i> |
| Definition a letter that represents an unknown # | Example <i>x w y</i> <i>g v</i> |

x + 1 = 6
x = 5
0
1 2
2 2
+ 6

expression

- contains #'s, variables, & math operations

x + 2

vs.

equation

- contains #'s, variables, math operations, AND an equal sign

x + 2 = 5

Example 1: Evaluate each variable expression.

x = 5 and *y = 10*

| I Do | I Do | We Do |
|---|--------------------|---|
| <i>y - 7</i> | $\frac{25}{x}$ | <i>y - 4</i> |
| <i>10 - 7</i> | $\frac{25}{5} = 5$ | <i>10 - 4</i> |
| 3 | | 6 |

Example 2: Evaluate each variable expression.

$x = 5$ and $y = 10$

D
E
MP
AS

| I Do | I Do | We Do |
|--|--|--|
| $3y - 7$ $3 \cdot y - 7$ $3 \cdot 10 - 7$ $30 - 7$ 23 | $2x - 1$ $2 \cdot x - 1$ $2 \cdot 5 - 1$ $10 - 1$ 9 | $5y + 4$ $5 \cdot y + 4$ $5 \cdot 10 + 4$ $50 + 4$ 54 |

Example 3: Evaluate each variable expression.

$x = 14$ and $y = 40$

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MD
AS

| I Do | I Do | We Do |
|---|--|--|
| $4(y - 17)$ $4 \cdot (40 - 17)$ $4 \cdot 23$ 92 | $\frac{x-11}{y-28}$ $\frac{y-28}{x-11}$ $\frac{40-28}{14-11} = \frac{12}{3}$ = 4 | $4 \cdot y \div 2$ $4 \cdot 40 \div 2$ $160 \div 2$ 80 |