

## Overview of problems



*Example Set: A*

*What is the sum of 2 and 9?*

*What is the difference of 15 and 4?*

*What is the product of 3 and 7?*

*What is the quotient of 16 and 4?*

*What is the sum of 5.8, 1.6 and 2.9?*

*What is the difference of 329 and 144?*

*What is the product of 9, 3, and zero?*

*What is the quotient of 15 and 30?*



## Example Set: B

Evaluate the expression

$$17 - [3(2)]$$

$$[12 - 4(1)] + 6$$

$$[16 \div (3 + 1)] - 2$$

$$\frac{14}{(10 - 3) \cdot 2}$$

$$4^2 + 3^2 + 2^2 + 1^2$$

$$(9 - 7)^2 \cdot (20 - 17)^2$$



## Example Set: C

Write the expression using powers

$$2 \cdot 2 \cdot 2$$

$$3 \cdot 3 \cdot 3 \cdot 3 \cdot 3$$

"two to the tenth power"

$$y \cdot y$$

$$3x \cdot 3x \cdot 3x \cdot 3x$$

$$xz \cdot xz \cdot xz \cdot xz \cdot xz$$

$$(g+h) \cdot (g+h) \cdot (g-h)$$



## Example Set: D

Evaluate the expression

$$|-3|$$

$$|7|$$

$$2^4$$

$$(-3)^2$$

$$-3^2$$

$$|-9| - |4|$$

$$4^3$$

$$(-5)^3$$

$$5 \cdot 4 \cdot 3 \cdot 2 \cdot 1$$

$$\frac{0}{10,326} + \frac{11,451}{11,451}$$

## Overview of problems- KEY



Example Set: A

What is the sum of 2 and 9? = 11

What is the difference of 15 and 4? = 11

What is the product of 3 and 7? = 21

What is the quotient of 16 and 4? = 4

What is the sum of 5.8, 1.6 and 2.9? = 10.3

What is the difference of 329 and 144? = 185

What is the product of 9, 3, and zero? = 0

What is the quotient of 15 and 30? =  $\frac{1}{2}$



## Example Set: B

Evaluate the expression

$$17 - [3(2)] = 11$$

$$[12 - 4(1)] + 6 = 14$$

$$[16 \div (3 + 1)] - 2 = 2$$

$$\frac{14}{(10 - 3) \cdot 2} = 1$$

$$4^2 + 3^2 + 2^2 + 1^2 = 30$$

$$(9 - 7)^2 \cdot (20 - 17)^2 = 36$$



## Example Set: C

Write the expression using powers

$$2 \cdot 2 \cdot 2 = 2^3$$

$$3 \cdot 3 \cdot 3 \cdot 3 \cdot 3 = 3^5$$

$$\text{"two to the tenth power"} = 2^{10}$$

$$y \cdot y = y^2$$

$$3x \cdot 3x \cdot 3x \cdot 3x = (3x)^4$$

$$xz \cdot xz \cdot xz \cdot xz \cdot xz = (xz)^5$$

$$(g+h) \cdot (g+h) \cdot (g-h) = (g+h)^2(g-h)$$



## Example Set: D

Evaluate the expression

$$|-3| = 3$$

$$|7| = 7$$

$$2^4 = 16$$

$$(-3)^2 = 9$$

$$-3^2 = -9$$

$$|-9| - |4| = 5$$

$$4^3 = 64$$

$$(-5)^3 = -125$$

$$5 \cdot 4 \cdot 3 \cdot 2 \cdot 1 = 120$$

$$\frac{0}{10,326} + \frac{11,451}{11,451} = 1$$