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? = 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

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

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

"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

$|-3| = 3$

$|7| = 7$

$2^4 = 16$

$(-3)^2 = 9$

$-3^2 = -9$

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

$4^3 = 64$

$(-5)^3 = -125$

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

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