

Warm-Up:

1) Turn the verbal expression into an algebraic expression.

The quotient between 12 and the product of 5 and a number.

$$12 \div 5n$$
~~$$\frac{12}{5n}$$~~

$$5n \sqrt{12}$$

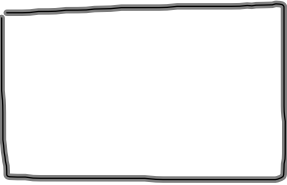
2) Evaluate.

$$2^5 = 2 \cdot 2 \cdot 2 \cdot 2 \cdot 2 = 32$$

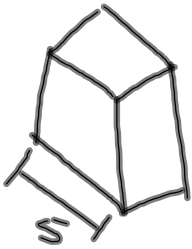
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48, 23, 46

23) πr^2

46) w  w $2w + 2l$

l \textcircled{C}

48)  $5 \cdot 5 \cdot 5$

5^3 \textcircled{D}

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Section 1-2: Order of Operations

The rules of which mathematical operations to perform before others are called the **order of operations**.

P lease	P arenthesis
E xcuse	E xponents
M y	M ultiplication
D ear	D ivision
A unt	A ddition
S ally	S ubtraction

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Examples:

Evaluate each expression.

1) $48 \div 2 + 3 \cdot 5$

$$\begin{array}{l} 24 + 3 \cdot 5 \\ 24 + 15 \\ \hline 39 \end{array}$$

2) $(8 - 3) \cdot 3(3 + 2)$

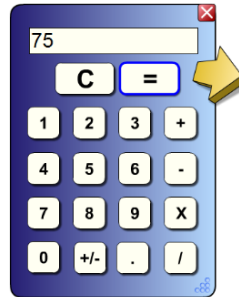
$$\begin{array}{l} 5 \cdot 3(3 + 2) \\ 5 \cdot 3 \cdot 5 \\ 75 \end{array}$$

3) $4[12 \div (6 - 2)]^2$

$$\begin{array}{l} 4[12 \div 4]^2 \\ 4[3]^2 \\ 4 \cdot 9 \\ \hline 36 \end{array}$$

4) $\frac{(2^5 - 6 \cdot 2)}{(3^3 - 5 \cdot 3 - 2)}$

$$\begin{array}{r} 32 - 6 \cdot 2 \\ \hline 27 - 5 \cdot 3 - 2 \\ \hline 32 - 12 \\ \hline 27 - 15 - 2 \\ \hline 20 \\ \hline 10 \end{array}$$



Aug 20-2:41 PM

Examples:

5) Evaluate the expression $2(x^2 - y) + z^2$ if $x = 4$, $y = 3$, and $z = 2$.

$$2(4^2 - 3) + 2^2$$

$$2(16 - 3) + 2^2$$

$$2 \cdot 13 + 2^2$$

$$2 \cdot 13 + 4$$

$$26 + 4$$

$$30$$

6) Each side of the Great Pyramid of Giza, Egypt, is a triangle. The base of each triangle measured 230 meters. The height of each triangle is 187 meters. The area of the triangle is one-half the product of the base b and its height h .

a) Write an algebraic expression that represents the area of one side of the Great Pyramid.

$$\frac{1}{2} \cdot bh$$

b) Find the area of one side of the Great Pyramid.

$$\frac{1}{2} (230)(187)$$

$$21,505 \text{ m}^2$$

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Homework: pg. 13-14 #14-32 even,
33, 36, 40, 47, 48

Section 1-2 Vocab

Have a book cover by Sept. 2nd

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