

Today's Plan:

Learning Target (standard): I will use the order of operations to evaluate expressions.

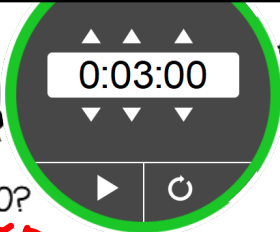
Students will: Complete practice problems over previous concepts at the boards, put up homework problems on the board and make necessary corrections to their own work, take notes over new material and complete practice problems over new concepts.

Teacher will: Provide practice problems over previous concepts, check homework problems for accuracy and provide students feedback, describe and provide examples of new concepts and assign students assessment problems over new concepts.

Assessment: Board work, homework check and homework assignment

Differentiation: Students will work at the board, go over and correct homework at their seats, actively engage in lecture over new concepts, practice new concepts with the aid of other students and the teacher and complete homework assignment.

NAME _____

VS BELL RINGER 

1.) Is 4 a solution of the inequality $x^2 + 3 < 50$?
 "true" $4^2 + 3 < 50$ $16 + 3 < 50$ $19 < 50$

2.) Evaluate the expression $5 + 21 \div x$ when $x = 3$.
 $5 + 21 \div 3$ $5 + 7$ 12

3.) Find the area of a rectangle that has a width of 6 feet and a length of 2 feet.
 $A = wl$
 $A = (6ft)(2ft)$

$$A = 12ft^2$$

$$\begin{aligned}
 5) \frac{(3 \cdot 2)^2 \cdot 7}{9 + 3} &= \frac{6^2 \cdot 7}{9 + 3} \\
 &= \frac{36 \cdot 7}{9 + 3} \\
 &= \frac{252}{9 + 3} \\
 &= \frac{252}{12} \\
 &= 21
 \end{aligned}$$

<p>7</p> <p>three-fourths the square of a number</p> $\frac{3}{4} \cdot x^2$ $\frac{3}{4} x^2$	<p>8</p> <p>one-half the cube of m subtracted by 4</p> $\frac{1}{2} m^3 - 4$	<p>9</p> <p>7p</p> <p>the product of 7 and a number</p>
<p>13</p> <p>$(x + 5) - 4y$</p>	<p>14</p> <p>$\frac{5}{x} + 4y$</p>	<p>15</p> <p>$\frac{x - 2}{3} + 7x$</p>

Evaluate each expression.

$$5 - 1 + \underline{12 \div 2}$$

$$\underline{5} - 1 + 6$$

$$4 + 6$$

$$\textcircled{10}$$

$$8 \div \underline{(6 - 4)} + 5$$

$$\underline{8 \div 2} + 5$$

$$4 + 5$$

$$\textcircled{9}$$

Simplify.

$$\left(\frac{5}{3}\right)^2 = \left(\frac{5}{3}\right)\left(\frac{5}{3}\right) = \frac{25}{9}$$

$$\left(\frac{4}{7}\right)^2 = \left(\frac{4}{7}\right)\left(\frac{4}{7}\right) = \frac{16}{49}$$

$$\left(\frac{1}{3}\right)^2 = \left(\frac{1}{3}\right)\left(\frac{1}{3}\right) = \frac{1}{9}$$

Simplify.

$$\begin{aligned} & \underline{(14-22)}2^3 - \underline{(12+6^2 \div 9)} \\ & -8 \cdot 2^3 - (12+36 \div 9) \\ & -8 \cdot 2^3 - (12+4) \\ & -8 \cdot \underline{2^3} - 16 \\ & -8 \cdot 8 - 16 \\ & -64 - 16 \\ & \underline{-80} \end{aligned}$$

Evaluate if $s = 2$.

$$\begin{aligned} & \frac{s^4}{4} - 17 \\ & \frac{2^4}{4} - 17 \\ & \frac{16}{4} - 17 \\ & 4 - 17 \\ & \underline{-13} \end{aligned}$$

Evaluate if $s = 2$ and $t = 5$.

$$-4(s)^2 + t^3 \div 5$$

$$-4(2)^2 + 5^3 \div 5$$

$$-4 \cdot 4 + 125 \div 5$$

$$-16 + 125 \div 5$$

$$-16 + 25$$

$$\textcircled{9}$$

Simplify.

$$2^3 + 2^2 \cdot (5 - 7)$$

$$2^3 + 2^2 \cdot -2$$

$$8 + 4 \cdot -2$$

$$8 - 8$$

$$0$$

Assignment:

Order of Operations 2

#1-12