

Algebra 1 - 9th grade

Warm-up 1.3

Evaluate for the given values of the variable.

1. $3x - 4$ for $x = 5$

$$\begin{aligned} &3(5) - 4 \\ &= 15 - 4 \\ &= 11 \end{aligned}$$

2. $4n + 3$ for $n = 2$

$$\begin{aligned} &4(2) + 3 \\ &= 8 + 3 \\ &= 11 \end{aligned}$$

3. $2y - 5$ for $y = 12$

$$\begin{aligned} &2(12) - 5 \\ &= 24 - 5 \\ &= 19 \end{aligned}$$

~~8/31~~ - Order of Operations

8/31

Parentheses

Exponents

(Multiply) together
(Divide) but $L \rightarrow R$

(Add) together
(Subtract) but $L \rightarrow R$

Simplify each expression.

$$\begin{aligned} & 3 - \underline{12 \div 4} \\ & = 3 - 3 \\ & = 0 \end{aligned}$$

$$\begin{aligned} & \underline{6^2} \div 4 \cdot 5 \\ & = \underline{36} \div 4 \cdot 5 \\ & = 9 \cdot 5 \\ & = 45 \end{aligned}$$

$$\begin{aligned} & \underline{6^2} - 4 \cdot 3 + \underline{7^2} \\ & = 36 - \underline{4 \cdot 3} + 49 \\ & = \underline{36 - 12} + 49 \\ & = 24 + 49 \\ & = 73 \end{aligned}$$

$$\begin{aligned} & (\underline{8 \cdot 7} + 2) + (\underline{3 \cdot 2} - \underline{2 \cdot 2}) \\ &= (56 + 2) + (6 - 4) \\ &= 58 + 2 \\ &= 60 \end{aligned}$$

Insert grouping symbols to make the equation true.


$$(30 + 4) \div 2 - 1 = 16$$

Handwritten work in blue ink:

$$34 \div 2 - 1$$
$$17 - 1$$

$$(18 + 30) \div 2 = 24$$

Handwritten work in red ink:

$$48 \div 2$$


Use order of operations to evaluate:

multiply
 $5x^2 + 7y$ for $x = 3, y = 2$

$$5 \cdot 3^2 + 7 \cdot 2$$

$$= 5 \cdot 9 + 7 \cdot 2$$

$$= 45 + 14$$

$$= 59$$

HW: pg 21

#18-54 even
due Friday
or
Tuesday