

9-29-17

Aim: SWBAT evaluate expressions using the Order of Operations.

HW: Textbook Pg. 79 # 26 - 30

Test Tuesday

Do Now: Textbook Pg. 21 # 29 - 31 odd

Practice Integer Operations

- » IXL.com - requires a subscription
- » aaamath.com - free

Pg. 21 # 25-35 odd; Pg. 79 # 26-33

$$\begin{aligned} \textcircled{25} & (2+1)^4 \div 9 - 4 \\ & \quad \checkmark \\ & (3)^4 \div 9 - 4 \\ & \quad \checkmark \\ & 81 \div 9 - 4 \\ & \quad \checkmark \\ & 9 - 4 \\ & \quad \checkmark \\ & 5 \end{aligned}$$

$$\begin{aligned} \textcircled{27} & (5 \times 3)^2 - 4 \\ & \quad \checkmark \\ & 15^2 - 4 \\ & \quad \checkmark \\ & 225 - 4 \end{aligned}$$

Pem DAS

2·2·2·2·2

$$\begin{aligned} \textcircled{29} & 500 \div (12-7)^1 \\ & \quad \checkmark \\ & 500 \div (5)^1 \\ & \quad \checkmark \\ & 500 \div 5 \\ & \quad \checkmark \\ & 100 \end{aligned}$$

$$\begin{aligned} \textcircled{31} & (9-7)^5 + 17 \\ & \quad \checkmark \\ & (2)^5 + 17 \\ & \quad \checkmark \\ & 32 + 17 \\ & \quad \checkmark \\ & 49 \end{aligned}$$

$$\frac{3}{4} \times 4$$

$$\begin{aligned} \textcircled{33} & 9^2 - 3^3 \\ & \quad \checkmark \\ & 81 - 3^3 \\ & \quad \checkmark \\ & 81 - 27 \\ & \quad \checkmark \\ & 54 \end{aligned}$$

$$\begin{aligned} \textcircled{35} & \frac{3}{4} \times 4 + 6^2 \div 9 \\ & \quad \checkmark \quad \checkmark \\ & \frac{3}{4} \times 4 + 36 \div 9 \\ & \quad \checkmark \\ & 3 + 36 \div 9 \\ & \quad \checkmark \\ & 3 + 4 \\ & \quad \checkmark \\ & 7 \end{aligned}$$

careful there

$$\frac{3}{4} \cdot \frac{4}{1} = \frac{3}{1}$$

$$\begin{aligned} \textcircled{31} \quad & |c| + |b| \\ & | -27 | + | 24 | \\ & \checkmark \quad \checkmark \\ & 27 + 24 \\ & 51 \end{aligned}$$

Pg. 70 #19-25 odd

$$\begin{aligned} \textcircled{19} \quad & a - 6 \\ & -9 - 6 \\ & -15 \end{aligned}$$

$$\begin{aligned} \textcircled{21} \quad & a - c \\ & -9 - (-4) \\ & -5 \end{aligned}$$

$$\begin{aligned} \textcircled{23} \quad & a - b - c \\ & -9 - 18 - (-4) \\ & \checkmark \\ & -27 - (-4) \\ & -23 \end{aligned}$$

$$\begin{aligned} \textcircled{25} \quad & a + b - c \\ & -9 + 18 - (-4) \\ & \checkmark \\ & 9 - (-4) \\ & 13 \end{aligned}$$

Pg. 75 36-40

$$\begin{aligned} \textcircled{36} \quad & -12 \cdot |11| \\ & -12 \cdot 11 \\ & -132 \end{aligned}$$

$$\begin{aligned} \textcircled{37} \quad & -7(-8) \cdot |-4| \\ & \checkmark \quad \checkmark \\ & 56 \cdot 4 \\ & 224 \end{aligned}$$

$$\begin{aligned} \textcircled{38} \quad & 10(-4) \cdot |13| \\ & \checkmark \quad \checkmark \\ & -40 \cdot 13 \\ & -520 \end{aligned}$$

$$\begin{aligned} \textcircled{39} \quad & |8| \cdot |-14| \cdot 3 \\ & \checkmark \quad \checkmark \\ & 8 \cdot 14 \cdot 3 \\ & \checkmark \\ & 112 \cdot 3 \\ & \checkmark \\ & 336 \end{aligned}$$

$$\begin{aligned} \textcircled{40} \quad & -4(-8) \cdot |-3| \\ & \checkmark \quad \checkmark \\ & 32 \cdot 3 \\ & 96 \quad \textcircled{D} \end{aligned}$$

Evaluate each expression if $a = 3$, $b = -4$, and $c = -8$.

$$\frac{c + a}{-2a + b} \rightarrow \frac{-8 + 3}{(-2)(3) + (-4)} \rightarrow \frac{-5}{-6 + (-4)} \rightarrow \frac{-5}{-10} \rightarrow \frac{1}{2}$$

$$\frac{bc}{2} \rightarrow \frac{(-4)(-8)}{2} \rightarrow \frac{32}{2} \rightarrow 16$$

$$\frac{c^2}{a - b} \rightarrow \frac{(-8)^2}{3 - (-4)} \rightarrow \boxed{\frac{64}{7}}$$