



WARM UP GRADE 8

Friday, Sept. 23

Section 2.5 Order of Operations with Integers continued



QUIZ FIRST

Once you are done the quiz work on the following questions

$$\begin{aligned}
 1) & \quad [15 + (-4) \times (-2)] - 14 \div 7 - (-5) \\
 & = [15 + (+8)] - 14 \div 7 - (-5) \\
 & = (+23) - 14 \div 7 - (-5) \\
 & = (+23) - 2 - (-5) \\
 & = \quad \quad 21 \quad \quad - (-5) \\
 & \quad \quad \quad \quad \quad \downarrow \text{add} \quad \downarrow \text{opp} \\
 & = \quad 21 \quad + (+5) \\
 & = +26
 \end{aligned}$$

$$\begin{aligned}
 2) & \quad 15 \times 2 + 10 \div (-2) \\
 & = 30 + 10 \div (-2) \\
 & = 30 + (-5) \\
 & = +25
 \end{aligned}$$

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Homework Solutions

3a) $7 + \underline{(-1) \times (-3)}$

4.

$$7 + 3$$

$$10$$

b) $\underline{(-18) \div (-6)} - (-4)$

$$+3 + (+4)$$

$$+7$$

c) $\underline{6 + (-4)} - (-2)$

$$2 + (+2)$$

$$+4$$

d) $(-2) \underline{[7 + (-5)]}$

$$(-2) \times (+2)$$

$$-4$$

e) $\underline{(-3) \times (-4)} \div (-1)$

$$+12 \div (-1)$$

$$-12$$

f) $8 - 3 + \underline{(-4) \div (-1)}$

$$8 - 3 + 1$$

$$6$$

Homework Solutions

$$5 \quad 3 - (-5) + \underline{8(-4)}$$

- do mult. first

$$\underline{3 - (-5)} + (-32)$$

- do subtr.

$$3 + (+5) + (-32)$$

$$-24$$

Elijah added before subtracting which was where he made his mistake.

$$6a) \quad 12 \div \underline{(2 \times 3)} - 2$$

$$12 \div 6 - 2$$

$$2 - 2$$

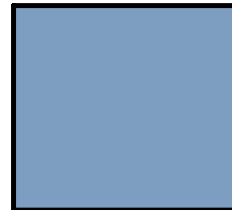
$$0$$

$$b) \quad 12 \div 2 \times \underline{(3 - 2)}$$

$$12 \div 2 \times 1$$

$$6 \times 1$$

$$6$$



Order of Operations

The order in which you answer the question is very

B - Brackets

E - Exponents

**D } Division and Multiplication, in the order
M } it occurs from left to right.**

**A } Addition and Subtraction, in the order it
S } occurs from left to right.**

From last day grade 8M did not do

Example:

Hint: Evaluate Numerator and Denominator separately

$$\frac{[16 - (-4)] \times (-3)}{3(-2)}$$

Step 1)

Step 2)

Step 3)

You Try (New Today)

$$\begin{aligned}
 & \textcircled{a} 5 \times 4 - (-3 + 7 \times 2) \\
 & = 5 \times 4 - (-3 + 14) \\
 & = 5 \times 4 - (+11) \\
 & = 20 - (+11) \\
 & = +9
 \end{aligned}$$

BEDMAS

~~(b) $17 - 3^2 + 8 - 2$~~

$$\begin{aligned}
 & 20 - (+11) \\
 & (+20) + (-11)
 \end{aligned}$$

$$\begin{aligned}
 & \textcircled{c} 12 \times 3 - 14 \div (-2) \\
 & = 36 - 14 \div (-2) \\
 & = 36 - (-7) \\
 & = 36 + (+7) \\
 & = +43
 \end{aligned}$$

BEDMAS

$$\begin{aligned}
 & \textcircled{d} 4 \times 7 - (8 - 2) \times 3 \\
 & = 4 \times 7 - (6) \times 3 \\
 & = 28 - (6) \times 3 \\
 & = 28 - 18 \\
 & = 10
 \end{aligned}$$

BEDMAS

(e) $2 \times (8 + 4) - (9 + 1)$

(f) $64 \div 8 \times (4 + 1)$

(g) $\{3 + 7 \times (2 + 1)\} - 4$

Example:

Hint: Evaluate Numerator and Denominator separately

$$\frac{4 + [18 - (-4)] \times (-2)}{2^2}$$

Step 1)

Step 2)

Step 3)

Class/Homework

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#7 ^{ace} # 13

8 ^{ab}
^{cde}

#9 ^{ab}

~~5~~

→ find the Mean : (Add up all Numbers and then divide the sum by the total number of numbers)

#10 ^b

#11,

~~5~~

~~5~~

Wed Sept 26
Test

Test Next Week

$$\begin{aligned} 7a) & \underline{7(4)} - 5 \\ & 28 - 5 \\ & 23 \end{aligned}$$

$$\begin{aligned} b) & 6 \underline{[2 + (-3)]} \\ & 6 \times (-1) \\ & -6 \end{aligned}$$

$$\begin{aligned} c) & (-3) + \underline{4(-7)} \\ & (-3) + (-28) \\ & -31 \end{aligned}$$

$$\begin{aligned} d) & (-6) + \underline{4(-2)} \\ & -6 + (-8) \\ & -14 \end{aligned}$$

$$\begin{aligned} e) & 15 \div \underline{[10 \div (-2)]} \\ & 15 \div (-5) \\ & -3 \end{aligned}$$

$$\begin{aligned} f) & \underline{18 \div 2} (-6) \\ & 9 \times (-6) \\ & -54 \end{aligned}$$