



WARM UP GRADE 8
Thursday, Sept. 21

Section 2.5 Order of Operations with Integers
continued



QUIZ FIRST ~~B~~DMAS

Once you are done the quiz work on
the following questions

$$1) [15 + (-4) \times (-2)] - 14 \div 7 - (-5)$$

$$= [+15 + (+8)] - 14 \div 7 - (-5)$$

$$= (+23) - 14 \div 7 - (-5)$$

$$= (+23) - 2 - (-5)$$

$$= +21 - (-5)$$

$$= (+21) + (+5)$$

$$= +26$$

$$2) 15 \times 2 + 10 \div (-2)$$

$$= 30 + 10 \div (-2)$$

$$= (+30) + (-5)$$

$$= +25$$

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Homework Solutions

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

4.

$$\begin{array}{r} 7 + 3 \\ 10 \end{array}$$

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

$$\begin{array}{r} +3 + (+4) \\ +7 \end{array}$$

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

$$\begin{array}{r} 2 + (+2) \\ +4 \end{array}$$

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

$$\begin{array}{r} (-2) \times (+2) \\ -4 \end{array}$$

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

$$\begin{array}{r} +12 \div (-1) \\ -12 \end{array}$$

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

$$\begin{array}{r} 8 - 3 + 1 \\ 6 \end{array}$$

Homework Solutions

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

- do mult. first

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

- do subtr.

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

$(+8) + (-32)$
 -24

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

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

$$12 \div 6 - 2$$

$$2 - 2$$

$$0$$

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

$$12 \div 2 \times 1$$

$$6 \times 1$$

$$6$$



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

$$\begin{aligned} b) & 6 \underline{[2 + (-5)]} \\ & 6 \times (-3) \\ & -18 \end{aligned}$$

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

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

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

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

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)

Top
[16 - (-4)]

You Try (New Today)

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

$$\text{(c) } 12 \times 3 - 14 \div (-2)$$

$$\text{(d) } 4 \times 7 - (8 - 2) \times 3$$

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

BEDMAS

Base
3
Repeat
x

$$\begin{aligned}
 & \text{(b) } 17 - 3^2 + 8 \div 2 \\
 & = 17 - 9 + 8 \div 2 \\
 & = (17) - (9) + 4 \\
 & \quad (+17) + (-9) + 4 \\
 & \quad \quad +8 \quad +4 \\
 & \quad \quad \quad +12
 \end{aligned}$$

$$\begin{aligned}
 & \text{(e) } 2 \times (8 + 4) - (9 + 1) \\
 & = 2 \times (12) - (9 + 1) \\
 & = 2 \times 12 - (10) \\
 & = 24 - (10) \\
 & = +14
 \end{aligned}$$

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

Example:

Hint: Evaluate Numerator and Denominator separately

$$\frac{4 + [18 - (-4)] \times (-2)}{2^2} \quad \text{Step 1)}$$

Step 2)

$$\text{Top}$$

$$4 + [18 - (-4)] \times (-2) \quad \text{Step 3)}$$

$$= 4 + [18 + (+4)] \times (-2)$$

$$= 4 + (+22) \times (-2)$$

$$= (+4) + (-44)$$

$$\text{Top} = -40$$

$$\text{Bottom} = 2^2$$

$$2 \times 2$$

$$4$$

$$\frac{\text{Top}}{\text{Bottom}} = \frac{-40}{+4} = -10$$

Class/Homework

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#7 ^{df}
#8 ^{ull} #13

#9 ^{ac} #15 → find the Mean : (Add up all Numbers and then divide the sum by the total number of numbers)

#10 ^{ac}

#11, ~~#13~~

#12 ^{abc}

Test Next Week

Tuesday Sept 26