

WARM UP GRADE 8



Section 2.5 Order of Operations with Integers continued



~~QUIZ FIRST~~ **BEDMAS**

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

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

$$4. \quad 7 + 3$$

$$10$$

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

$$+3 + (+4)$$

$$+7$$

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

$$2 + (+2)$$

$$+4$$

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

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

$$+4$$

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

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

$$-12$$

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

$$8 - 3 + 1$$

$$6$$

Homework Solutions

$$5 \quad 3 - (-5) + 8(-4)$$

- do mult. first

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

- do subtr.

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

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

+24

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

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

$$12 \div 6 - 2$$

$$2 - 2$$

$$0$$

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

$$12 \div 2 \times 1$$

$$6 \times 1$$

$$6$$



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.**

You Try (New Today)

BEDMAS

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

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

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

$$\begin{aligned}
 & \text{(f) } 64 \div 8 \times (4+1) \\
 & 64 \div 8 \times (5) \\
 & 8 \times (5) \\
 & \boxed{+40}
 \end{aligned}$$

$$\text{(b) } 17 - 3^2 + 8 \div 2$$

$$\begin{aligned}
 & 17 - 9 + 8 \div 2 \\
 & 17 - 9 + 4 \\
 & 8 + 4 \\
 & \boxed{12}
 \end{aligned}$$

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

$$\begin{aligned}
 & 2 \times (12) - (9+1) \\
 & 2 \times (12) - (10) \\
 & 24 - 10 \\
 & \boxed{+14}
 \end{aligned}$$

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

$$\begin{aligned}
 & (3 + 7 \times 3) - 4 \\
 & (3 + 21) - 4 \\
 & (24) - 4 \\
 & \boxed{+20}
 \end{aligned}$$

Class/Homework

← did yesterday

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- #7
- #8 *all*
- #9 *sub*
- #10
- #11,
- #12
- #13
- #14 *X*
- #15
- #17

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

Answer on Pg 502
Check work when done.

Test Next Week

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

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

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

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

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

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