



WARM UP GRADE 8

Thursday, Sept. 23



Section 2.5 Order of Operations with Integers continued

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

B E DM AS

$$= [\underbrace{15 + (+8)}_{(+23)}] - 14 \div 7 - (-5)$$

$$= (+23) - \underbrace{14 \div 7}_{(2)} - (-5)$$

$$= (+23) - \underbrace{(2)}_{(+21)} - (-5)$$

$$= (+21) - \underbrace{(-5)}_{(+5)}$$

$$= \boxed{+26}$$

$$2) \underbrace{15 \times 2}_{(30)} + 10 \div (-2)$$

$$= (30) + \underbrace{10 \div (-2)}_{(-5)}$$

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

$$= \boxed{+25}$$

Addition Rules

$$() + ()$$

Same sign

\Rightarrow Just add numbers
Keep sign

$$(+) + (-) =$$

different

(What's
the difference?
Big - Small)

Keep sign of larger #

$$\text{Ex) } (-2) + (-7) = -9$$

both neg

$$\text{Ex) } (+11) + (-2) = +9$$

Subtraction Rule

↳ add the opposite

$$() - () =$$

\downarrow add \downarrow opp
 $() + (opp)$

follow addition Rules

$$\begin{array}{ccc} (+) & \times & (+) \\ \swarrow \text{Same} \downarrow & & \Rightarrow + \\ (-) & \div & (-) \end{array}$$

different

$$\begin{aligned} (+) \div (-) \\ = (-) \end{aligned}$$

WARM UP GRADE 8**Do we need another**

Section 2.5 Order of Operations with Integers

Answer the following on loose leaf and pass it in. (No Calculators)

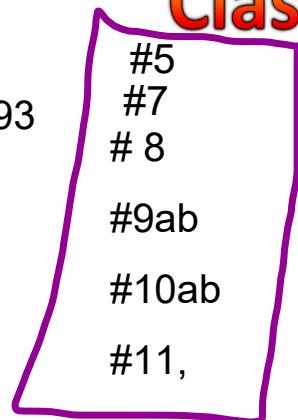
$$\begin{array}{llll}
 1) (-21) \div (-7) = \underline{+3} & 2) (-72) \div (-8) = \underline{+9} & 3) (+3) \times (+5) = \underline{+15} & 4) (+42) \div (-2) = \underline{-21} \\
 5) (-6) \times (+4) = \underline{-24} & 6) (-7) + (-9) = \underline{-16} & 7) (-21) + (-7) = \underline{-28} & 8) (+15) + (-10) = \underline{+5} \\
 9) (+3) + (-20) = \underline{-17} & 10) (-12) - (-1) = \underline{-11} & 11) (+16) - (-5) = \underline{+21} & 12) (+5) - (-20) = \underline{+25} \\
 & & \downarrow \text{(-12)} + \text{(+)1} & \\
 & & & \downarrow \text{+(+)5} \\
 & & & \downarrow \text{+(+)20}
 \end{array}$$

Show work

$$\begin{array}{ll}
 13) \underbrace{(-12) + (+17)}_{= +5} - (-2) & 14) (+16) - (-7) - (+2) \\
 = +5 \quad \downarrow \text{(-2)} & \\
 = (+5) \quad \downarrow \text{+(+)2} & \\
 = +7 &
 \end{array}$$

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Class/Homework

Extra if needed

#12

#13

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

#17

Test Next Week