

WARM UP GRADE 8

Thur. Sept. 26

Section 2.5 Order of Operations with Integers
continued

$$1) \frac{12 - 4(-6)}{[3 - (-3)] \times (-3)}$$

Top
Bottom

Top

multiply

$$= 12 - 4(-6)$$

$$= 12 - (-24)$$

$$= 12 + (+24)$$

$$= (+36)$$

Bottom

$$[3 - (-3)] \times (-3)$$

$$[3 + (+3)] \times (-3)$$

$$(+6) \times (-3)$$

$$(-18)$$

$$\frac{\text{Top}}{\text{Bottom}} = \frac{(+36)}{(-18)} = \boxed{-2}$$

All Operations with Integers (A)

Use an integer strategy to find each answer.

$(-5) + (-4) =$

$(-4) \times (-7) =$

$(+6) - (-2) =$

$(-3) + (+1) =$

$(-18) \div (-6) =$

$(-1) \times (+5) =$

$(-2) \times (-7) =$

$(+8) \times (+3) =$

$(+9) + (-3) =$

$(+3) \times (-1) =$

$(-4) - (-1) =$

$(+6) + (-5) =$

$(-3) + (+9) =$

$(-5) \times (+3) =$

$(-3) \div (+3) =$

$(-3) \times (+3) =$

$(-3) + (-6) =$

$(+8) + (-9) =$

$(-5) \times (+5) =$

$(-8) - (+6) =$

$(-7) - (-3) =$

$(+1) - (-9) =$

$(+8) \times (+4) =$

$(-4) + (-5) =$

$(+8) - (-2) =$

$(-9) + (-4) =$

$(+6) \times (+3) =$

$(-7) - (+2) =$

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

$(+3) + (-8) =$

Solutions on
next page

All Operations with Integers (A) Answers

Use an integer strategy to find each answer.

$$(-5) + (-4) = (-9)$$

$$(-4) \times (-7) = (+28)$$

$$(+6) - (-2) = (+8)$$

+ (+2)

$$(-3) + (+1) = (-2)$$

$$(-18) \div (-6) = (+3)$$

$$(-1) \times (+5) = (-5)$$

$$(-2) \times (-7) = (+14)$$

$$(+8) \times (+3) = (+24)$$

$$(+9) + (-3) = (+6)$$

$$(+3) \times (-1) = (-3)$$

$$(-4) - (-1) = (-3)$$

+ (+1)

$$(+6) + (-5) = (+1)$$

$$(-3) + (+9) = (+6)$$

$$(-5) \times (+3) = (-15)$$

$$(-3) \div (+3) = (-1)$$

$$(-3) \times (+3) = (-9)$$

$$(-3) + (-6) = (-9)$$

$$(+8) + (-9) = (-1)$$

$$(-5) \times (+5) = (-25)$$

$$(-8) - (+6) = (-14)$$

+ (-4)

$$(-7) - (-3) = (-4)$$

+ (+3)

$$(+1) - (-9) = (+10)$$

+ (+9)

$$(+8) \times (+4) = (+32)$$

$$(-4) + (-5) = (-9)$$

$$(+8) - (-2) = (+10)$$

+ (+2)

$$(-9) + (-4) = (-13)$$

$$(+6) \times (+3) = (+18)$$

$$(-7) - (+2) = (-9)$$

+ (-2)

$$(+2) \times (-4) = (-8)$$

$$(+3) + (-8) = (-5)$$

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Homework Solutions #7 TO 13, 15, 17

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

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

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

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

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

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

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$$8a) 6(5-7) - 3$$

$$6 \times (5 + (-7)) - 3$$

$$6 \times (-2) - 3$$

$$-12 + (-3)$$

$$-15$$

$$b) 4 - [5 + (-11)]$$

$$4 - (-6)$$

$$4 + (+6)$$

$$+10$$

$$c) [4 - (-8)] \div 6$$

$$[4 + (+8)] \div 6$$

$$12 \div 6$$

$$2$$

$$d) 8 - 66 \div (-11)$$

$$8 - (-6)$$

$$8 + (+6)$$

$$+14$$

$$e) (-24) \div 12 + (-3)(-4)$$

$$(-2) + (+12)$$

$$+10$$

$$f) 6(-3) + (-8)(-4)$$

$$-18 + (+32)$$

$$+14$$

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Homework Solutions

$$9a) \frac{(-7) \times 4 + 8}{4} = \frac{-20}{4} = -5$$

$$\begin{array}{r} (-7) \times 4 + 8 \\ -28 + 8 \\ -20 \end{array}$$

$$b) \frac{4 + (-36) \div 4}{-5} = \frac{-5}{-5} = 1$$

$$\begin{array}{r} 4 + (-36) \div 4 \\ 4 + (-9) \\ -5 \end{array} \quad +1$$

$$c) \frac{-32}{(-6)(-2) - (-4)} = \frac{-32}{+16} = -2$$

$$\begin{array}{r} (-6)(-2) - (-4) \\ +12 + (+4) \\ +16 \end{array}$$

$$d) \frac{9}{(-3) + (-18) \div 3}$$

$$\begin{array}{r} (-3) + (-18) \div 3 \\ -3 + (-6) \\ -9 \end{array} \quad \begin{array}{r} = \frac{9}{-9} \\ = -1 \end{array}$$

$$10. \frac{4(-3) + 7(-4)}{5(-1)} = \frac{-40}{-5}$$

$$\begin{array}{r} 4(-3) + 7(-4) \\ -12 + -28 \\ -40 \end{array} = +8$$

Homework Solutions

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$$b) \frac{[19 - (-5)] \div (-3)}{2(-2)} = \frac{-8}{-4}$$

$$\begin{array}{r} [19 - (-5)] \div (-3) \\ (19 + (+5)) \div -3 \\ +24 \div -3 \\ -8 \end{array}$$

+2

$$c) \frac{32 \div 4 - (-28) \div (-7)}{12 \div (-4)} = \frac{+12}{-3}$$

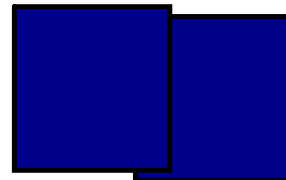
$$\begin{array}{r} 32 \div 4 - (-28) \div 7 \\ 8 - (-4) \\ 8 + (+4) \\ +12 \end{array}$$

= -4

$$d) \frac{12 - 4(-6)}{[3 - (-3)] \times (-3)} = \frac{+36}{-18}$$

$$\begin{array}{r} 12 - 4(-6) \\ 12 - (-24) \\ 12 + (+24) \\ +36 \end{array}$$

$$\begin{array}{r} [3 - (-3)] \times 3 \\ (3 + (+3)) \times (-3) \\ 6 \times -3 \\ -18 \end{array}$$



$$11. (-40) - 2[-8 \div 2]$$

$$-40 - 2 \times (-4)$$

$$-40 - (-8)$$

$$-40 + (+8)$$

$$-32$$

Robert was correct

Homework Solutions

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$$12. \underline{(-20)} \div 2 - (-2)$$

$$-10 - (-2)$$

$$-10 + (+2)$$

$$-8$$

$$(-20) \div [2 - (-2)]$$

$$-20 \div (2 + 2)$$

$$-20 \div +4$$

$$-5$$

$$b. -21 + 6 \div 3$$

$$-21 + 2$$

$$-19$$

$$(-21 + 6) \div 3$$

$$-15 \div 3$$

$$-5$$

$$c. 10 + 3 \times 2 - 7$$

$$10 + 6 - 7$$

$$9$$

$$10 + 3 \times (2 - 7)$$

$$10 + 3 \times -5$$

$$10 + (-15)$$

$$-5$$

13. $405 - 4 \times 45$

$405 - 180$

225

$405 + 4(-45) \checkmark$

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Homework Solutions

She has \$225 in her account.

15 $\frac{(-2) + (+5) + (-8) + (-4) + (-11) + (-10) + (-5)}{7}$

$$\begin{array}{r} -35 \\ \hline 7 \\ -5 \end{array}$$

17. a) $(-10) \boxed{\times} (-2) \boxed{+} 1 = 21$

b) $(-5) \boxed{-} (-2) \boxed{+} 4 = 1$

c) $6 \boxed{\times} (-7) \boxed{-} 2 = -44$

d) $(-2)(-2) \boxed{-} 8 = -4$

Class/Homework

Complete BOTH sheets and SHOW ALL
Work on your own paper

Extra Practice 1

Extra Practice 5

If they are chatty and not working you can
also assign

Page 166 #8 to #15 (Show all work)

$$\frac{14 - 2 \times 6}{2^2 + 3 \times 8} = \frac{2}{28}$$

()

$$\begin{array}{r} 14 - 2 \times 6 \\ 14 - 12 \\ 2 \end{array}$$

$$\begin{array}{r} 2^2 + 3 \times 8 \\ 4 + 24 \\ 28 \end{array}$$

Homework

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Attachments

Grade 8 Order of Operations Extra Practice.pdf

Extra Practice 5 Order of Operations (Integers).pdf