

## Warm Up Grade 7

Date: \_\_\_\_\_

Use the subtraction rule to subtract each of the following:

a)  $(+10) - (-3)$

$$\begin{array}{l} \downarrow \text{add} \quad \downarrow \text{OPP} \\ (+10) + (+3) \\ (+13) \end{array}$$

b)  $(-16) - (+5)$

$$\begin{array}{l} \downarrow \text{add} \quad \downarrow \text{OPP} \\ (-16) + (-5) \\ (-21) \end{array}$$

c)  $(+9) - (+3)$

$$\begin{array}{l} \downarrow \text{add} \quad \downarrow \text{OPP} \\ (+9) + (-3) \\ (+6) \end{array}$$

d)  $(-4) - (-7)$

$$\begin{array}{l} \downarrow \text{add} \quad \downarrow \text{OPP} \\ (-4) + (+7) \\ (+3) \end{array}$$

pg. 69 # 7,9,10,12,13

## Homework Solutions

$$7 a) \text{ (i) } (+3) - (+1) = +2$$

$$\begin{array}{l} (+1) - (+3) \\ (+1) + (-3) = -2 \end{array}$$

$$\text{(ii) } \begin{array}{l} (-3) - (-2) \\ (-3) + (+2) = -1 \end{array}$$

$$\begin{array}{l} (-2) - (-3) \\ (-2) + (+3) = +1 \end{array}$$

$$\text{(iii) } \begin{array}{l} (+4) - (-3) \\ (+4) + (+3) = +7 \end{array}$$

$$\begin{array}{l} (-3) - (+4) \\ (-3) + (-4) = -7 \end{array}$$

7 b) The order in which you subtract integers is important  
 $(+3) - (+1)$  is not the same  
 as  $(+1) - (+3)$

9. Subtraction question with answer:

$$a) +2 \quad \begin{array}{l} (+4) - (+2) \\ (+10) - (+8) \end{array}$$

$$b) (-3) \quad \begin{array}{l} (-5) - (-2) \\ (-1) - (+2) \\ (-8) - (-5) \end{array}$$

$$c) +5 \quad \begin{array}{l} (+12) - (+7) \\ (+4) - (-1) \\ (+9) - (+4) \end{array}$$

$$d) -6 \quad \begin{array}{l} (-8) - (-2) \\ (-3) - (+3) \\ (-5) - (+1) \end{array}$$

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10 a)  $(+3) - (-1)$

☺  $(+3) + (+1)$   
 $+4$   
Greater

$(-3) - (+1)$   
☺  $(-3) + (-1)$   
 $-4$

Homework Solutions

b)  $(-4) - (-5)$   
 $(-4) + (+5)$

☺  $+1$   
Greater

$(+4) - (+5)$   
☺  $(+4) + (-5)$   
 $-1$

☺ 12 a)  $(+4) - \square = +3$   
 $+1$

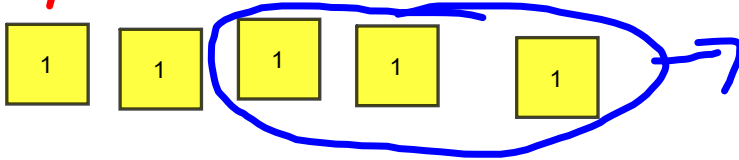
b)  $(+3) - \square = -1$   
 $+4$

c)  $\square - (+1) = +4$   
 $+5$

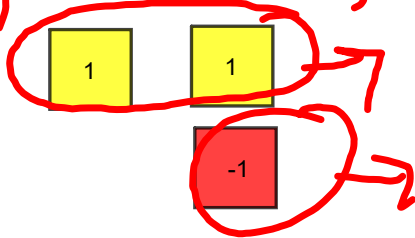
pg. 69 # 7,9,10,12

B a)  $(+4) + (+1) - (+3) = +2$

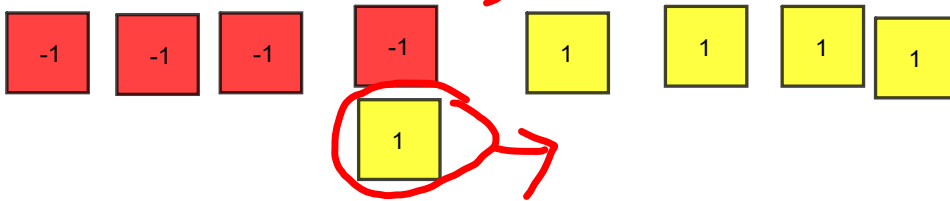
Homework Solutions



b)  $(+1) - (+2) - (-1) = 0$



c)  $(-3) - (+1) + (+4) = 0$



d)  $(-2) - (-4) + (-1)$   
 $(-2) + (+4) + (-1) = +1$

e)  $(+2) - (+1) - (+4)$   
 $(+2) + (-1) + (-4) = -3$

f)  $(+1) - (+2) + (+1)$   
 $(+1) + (-2) + (+1) = 0$

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pg. 69 # 7,9,10,12,13

## Homework Solutions

$$13a) (+4) + (+1) - (+3)$$

$$(+4) + (+1) + (-3) = +2$$

$$b) (+1) - (+2) - (-1)$$

$$(+1) + (-2) + (+1) = 0$$

$$c) (-3) - (+1) + (+4)$$

$$(-3) + (-1) + (+4) = 0$$

$$d) (-2) - (-4) + (-1)$$

$$(-2) + (+4) + (-1) = +1$$

$$e) (+2) - (+1) - (+4)$$

$$(+2) - (+1) + (-4) = -3$$

$$f) (+1) - (+2) + (+1)$$

$$(+1) + (-2) + (+1) = 0$$

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$$1 \ a) (+2) - (+1) = +1$$

$$c) (-4) - (-1) \\ (-4) + (+1) = -3$$

$$e) (-2) - (-6) \\ (-2) + (+6) = +4$$

$$2 \ a) (+1) - (+2) \\ (+1) + (-2) = -1$$

$$c) (-1) - (-4) \\ (-1) + (+4) = +3$$

$$e) (-6) - (-2) \\ (-6) + (+2) = -4$$

Homework Solutions

$$b) (+4) - (-3) \\ (+4) + (+3) = +7$$

$$d) (-5) - (+2) \\ (-5) + (-2) = -7$$

$$f) (-3) - (-7) \\ (-3) + (+7) = +4$$

$$b) (-3) - (-4) \\ (-3) + (-4) = -7$$

$$d) (+2) - (-5) \\ (+2) + (+5) = +7$$

$$f) (-7) - (-3) \\ (-7) + (+3) = -4$$

$$3a) (+10) - (+5) = +5$$

$$b) (+7) - (-3) \text{ Homework Solutions}$$

$$(+7) + (+3) = +10$$

$$c) (-8) - (+6)$$

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

$$d) (-10) - (+5)$$

$$(-10) + (-5) = -15$$

$$e) (-4) - (+4)$$

$$(-4) + (-4) = -8$$

$$f) (-4) - (-4)$$

$$(-4) + (+4) = 0$$

$$4a) (+6) - (+4) = +2$$

$$b) (-5) - (+4)$$

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

$$c) (-2) - (-3)$$

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

$$d) (+4) - (-2)$$

$$(+4) + (+2) = +6$$

$$e) (+1) - (+1) = 0$$

$$f) (+1) - (-1)$$

$$(+1) + (+1) = +2$$

**Use the rules for Adding and Subtracting to answer**

Show all Work (Especially for subtraction)

1)  $(-15) + (-7) = \underline{-22}$   
*same*

2)  $(+16) + (-8) = \underline{+8}$

3)  $(-1) - (+7) = \underline{-8}$   
 $(-1) + (-7)$

4)  $(+17) + (-21) = \underline{-4}$

5)  $(-25) - (+14) = \underline{-39}$   
 $(-25) + (-14)$

Show work

6)  $(-14) + (-2) - (+15) = \underline{-31}$   
 $(-16) - (+15)$   
 $(-16) + (-15)$

7)  $(+2) - (+6) + (-3) = \underline{\quad}$   
 $(+2) + (-6) + (-3)$

$(-4) + (-3)$   
 $\underline{-7}$

8) Write an **addition statement** and the **final sum** for the situation.

a) What is the final temperature if the temperature was  $18^{\circ}\text{C}$  and rose 3 degrees?

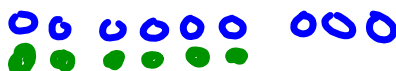
$(+18) + (+3) = (+21)$   
 Final temp was  $21^{\circ}\text{C}$ .

b) The populations of Mathville was 2100 and then dropped by 80 people, what is the new population?

$(+2100) + (-80) = (+2020)$

New population is  $+2020$ .

9) If you have **6 shaded** tiles, how many unshaded tiles are required to model  $-3$ .



$(+6) + \underline{(-9)} = (-3)$



Class/Homework

Test Oct. 4

Start of Review TODAY

Finish from yesterday Page 73-74 #1, 2, 3

*abcd*  
*Just Rules*  
*add opp*  
*abc*

Then

pg. 74-75  
*abcd*  
*a*

# 4, #5, #8(a, b), #11(a, b), #12(a, b, c, d, e, f)  
*x* *x* *now*

**Quiz Tomorrow on Adding & Subtracting of Integers**

(Rules and Models)

STUDY RULES

Test Tuesday, Sept. 23

Day 2 of Review

Class/Homework Thursday

pg. 79  
# 1(a,c),  
#2(a,b,c,d,e),  
#3(a,b,c,d),  
#4(a,b,c,d) ,  
#5(a,b),  
#6,  
#7(a,b),  
#8(a,b,c,d)

NEED TO DO  
DIVISIBILITY

Pg 74.

## Homework Solutions

$$5a) (+7) - (-5)$$

$$(+7) + (+5) = +12$$

$$b) (-15) - (-8)$$

$$(-15) + (+8) = -7$$

$$c) (-4) - (+9)$$

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

$$6a) (+2) - (-6)$$

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

means 8  
more shots

$$b) (-3) - (-8)$$

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

$$c) (-5) - (+4)$$

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

means 9 fewer  
shots.

7a) Calgary

$$(+13) - (-4)$$

$$(+13) + (+4) = +17 \quad 17^\circ \text{ warmer}$$

$$\text{Iqaluit} \quad (-10) - (-22)$$

$$(-10) + (+22) = +12$$

$$\text{Toronto} \quad (+12) - (-3)$$

$$(+12) + (+3) = +15$$

$$\text{Victoria} \quad (+13) - (+7) = +6$$

b) Calgary had the greatest  
difference in temp.

$$8. \begin{array}{l} (-6) - (+11) \\ (-6) + (-11) = -17 \end{array}$$

$$\begin{array}{l} (+11) - (-6) \\ (+11) + (+6) = +17 \end{array}$$

The answers are opposite integers.

9. +4 as a difference of 2 integers

$$(+8) - (+4) \quad (+6) - (+2)$$

$$(-1) - (-5) \quad (0) - (-4)$$

$$(-4) - (-8) \quad (-10) - (-14)$$

$$10 \text{ a) } \begin{array}{l} (+6) - (+5) = +1 \\ (+5) - (+5) = 0 \\ (+4) - (+5) = -1 \\ (+3) - (+5) = -2 \\ (+2) - (+5) = -3 \end{array}$$

$$b) \begin{array}{l} (+7) - (+4) = +3 \\ (+7) - (+3) = +4 \\ (+7) - (+2) = +5 \\ (+7) - (+1) = +6 \\ (+7) - (0) = +7 \\ (+7) - (-1) = +8 \\ (+7) - (-2) = +9 \\ (+7) - (-3) = +10 \end{array}$$

$$11. a) +6, +2, -2, \underline{-6}, \underline{-10}, \underline{-14}, \underline{-18}$$

subtract +4,

$$b) -3, -1, +1, \underline{+3}, \underline{+5}, \underline{+7}, \underline{+9}$$

add +2 each time

$$c) +5, +12, +19, \underline{+26}, \underline{+33}, \underline{+40}, \underline{+47}$$

add 7 each time

$$d) +1, 0, -1, \underline{-2}, \underline{-3}, \underline{-4}, \underline{-5}$$

subtract 1

$$12 a) (+4) - (+2) - (+1) = +1$$

$$b) (-2) - (+1) - (-4)$$

$$(-2) + (-1) + (+4) = +1$$

$$c) (-1) - (-2) - (+1)$$

$$(-1) + (-2) + (-1) = -4$$

$$d) (+5) - (+1) + (-2) = +2$$

$$e) (+10) - (+3) - (-5)$$

$$(+7) + (+5) = +12$$

$$f) (-7) - (+1) + (-3)$$

$$(-7) + (-1) + (-3) = -11$$

Homework Sheet 4.3 # 1-25

Sheet 4.4 # 1-34

Sheet 4.5 #1-16

(Even numbers only)