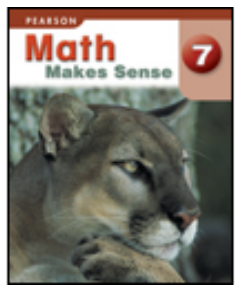


Warm Up Grade 7

Date:____

Use the subtraction rule to subtract each of the following:

a) (+10) - (-3)

(+10) + (+3)

= (+13)

b) (-16) - (+5)

(-16) + (-5)

= (-21)

c) (+9) - (+3)

(+9) + (-3)

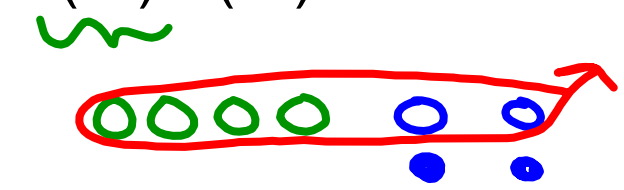
= (+6)

d) (-4) - (-7)

= (-4) + (+7)

= (+3)

2) Model (-4) - (-6) with tiles



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

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

Homework Solutions

7 a)(i) $(+3)-(+1)=+2$

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

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

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

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

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

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 $(+4)-(+2)$ $(+10)-(+8)$

b) (-3) $(-5)-(-2)$ $(-8)-(-5)$
$(-1)-(+2)$

c) +5 $(+12)-(+7)$ $(+9)-(+4)$
$(+4)-(-1)$

d) -6 $(-8)-(-2)$ $(-5)-(+1)$
$(-3)-(+3)$

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

Homework Solutions

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

$(+3)+(+1)$

$+4$

Greater

$(-3)-(+1)$

$(-3)+(-1)$

-4

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

$(-4)+(+5)$

$+1$

Greater

$(+4)-(+5)$

$(+4)+(-5)$

-1

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

$+1$

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

$+4$

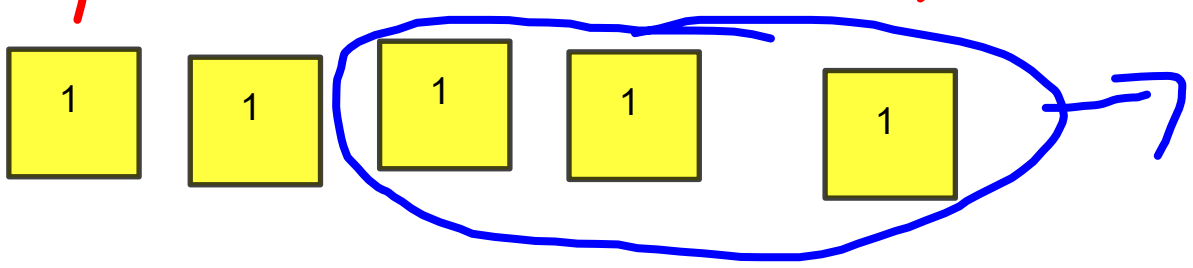
c) $\square-(+1)=+4$

$+5$

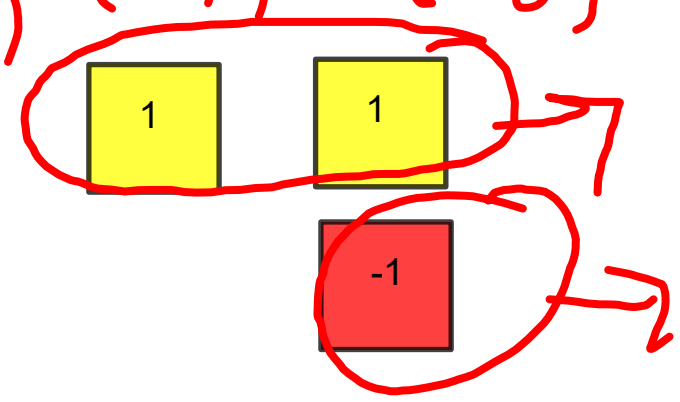
pg. 69 # 7,9,10,12

Homework Solutions

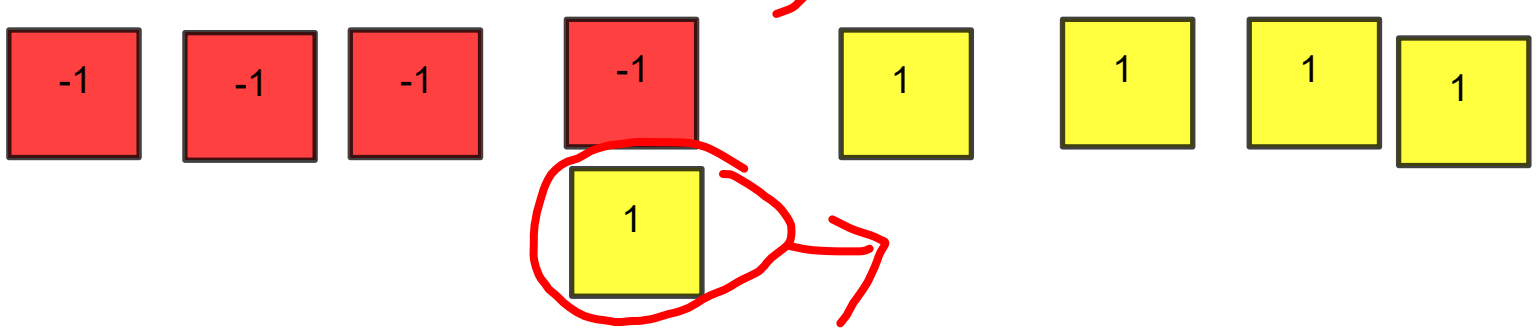
13 a) $(+4) + (+1) - (+3) = +2$



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

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

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

Homework Solutions

Pg 70.

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

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

Homework Solutions

pg 73

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

$(+2)+(-1)$

b) $(+4)-(-3)$

$(+4)+(+3)=+7$

c) $(-4)-(-1)$

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

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

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

e) $(-2)-(-6)$

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

f) $(-3)-(-7)$

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

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

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

b) $(-3)-(+4)$

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

c) $(-1)-(-4)$

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

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

$(+2)+(+5)=+7$

e) $(-6)-(-2)$

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

f) $(-7)-(-3)$

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

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

b) $(+7) - (-3)$

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

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) = (-22)

same

2) (+16) + (-8) = (+8)

diff

3) (-1) + (+7) = (-8)

(-1) + (-7) (+ → opp)

same

4) (+17) + (-21) = (-4)

diff

5) (-25) + (+14) = (-39)

(-25) + (-14) (+ → opp)

same

Show work

6) (-14) + (-2) - (+15) = ___

(-16) − (+15)

(-16) + (-15) = -31

7) (+2) - (+6) + (-3) = _____

(+2) + (-6) + (-3) (- → opp)

(-4) + (-3)

-7

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

a) What is the final temperature if the temperature was 18°C and rose 3 degrees? (+18) + (+3) = (+21)

b) The populations of Mathville was 2100 and then dropped by 80 people, what is the new population? (+2100) + (-80) = (+2020)

9) If you have 6 shaded tiles, how many unshaded tiles are required to model -3. (+6) + (?) = (-3)

-9

Class/Homework

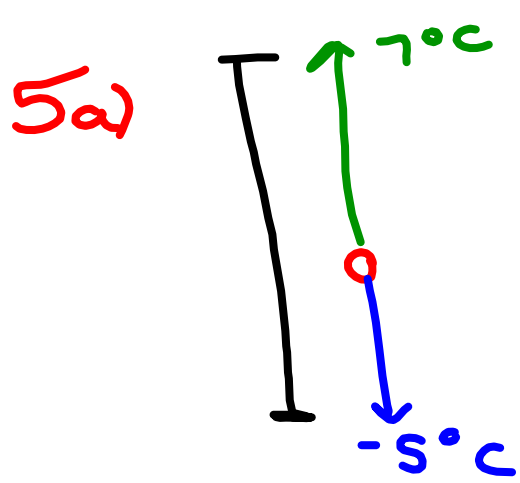
Test _____

Start of Review TODAY

Finish from yesterday Page 73-74 #1, 3

Then
pg. 75

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



Test in 5 days time

STUDY RULES

(7°C) - (-5°C) =
(7°) ↓ + (+5°C) = (12°C)

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

$(+13)-(-4)$

$(+13)+(+4)=+17$ 17° warmer

Iqaluit $(-10)-(-22)$

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

Toronto $(+12)-(-3)$

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

Victoria $(+13)-(+7)=+6$

b) Calgary had the greatest difference in temp.

8. $(-6)-(+11)$

$(-6)+(-11)=-17$

$(+11)-(-6)$

$(+11)+(+6)=+17$

The answers are opposite integers.

9. +4 as a difference of 2 integers

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

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

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

10.) $(+6)-(+5)=+1$

$(+5)-(+5)=0$

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

$(+3)-(+5)=-2$

$(+2)-(+5)=-3$

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

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

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

$(+7)-(+1)=+6$

$(+7)-(0)=+7$

$(+7)-(-1)=+8$

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

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

11. a) +6, +2, −2, −6, −10, −14, −18

subtract +4,

b) −3, −1, +1, +3, +5, +7, +9

add +2 each time

c) +5, +12, +19, +26, +33, +40, +47

add 7 each time

d) +1, 0, −1, −2, −3, −4, −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)