Homework

Solutions

pg. 75

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

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

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.

pg. 75
4, #5, #8(a,b), #11(a,b), #12(a,b,c,d,e,f)

Homework Solutions

7a) (April) - (January)

i)Cal: (+13) - (-4)
(+13) + (+4)
+17

ii)Iqualuit: (-10) - (-22)
(-10) + (+22)
+12

i)TO: (+12) - (-3)
(+12) + (+3)
+15

iv)Vic: (+13) - (+7)
(+13) + (-7)
+6

b) Calgary has the greatest change since it has the largest difference

8a) (-6) - (+11)
(-6) + (-11)
= -17

8b) (+11) - (-6)
(+11) + (+6)
= +17

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

12) b) (-2) - (+1) - (-4)
(-2) + (-1) + (+4)
-3 + (+4)
= +1

12c) (-1) - (+2) - (+1)
= (-1) + (-2) + (-1)
= (-3) + (-1)
= -4

12d) (+5) - (+1) +(-2)
= (+5) + (-1) + (+2)
= (+4) + (+2)
= +6

12e) (+10) - (+3) - (-5)
= (+10) + (-3) + (+5)
= (+7) + (+5)
= +12

12f) (-7) - (+1) + (-3)
= (-7) + (-1) + (-3)
= (-8) + (-3)
= +11

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

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

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

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

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

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