



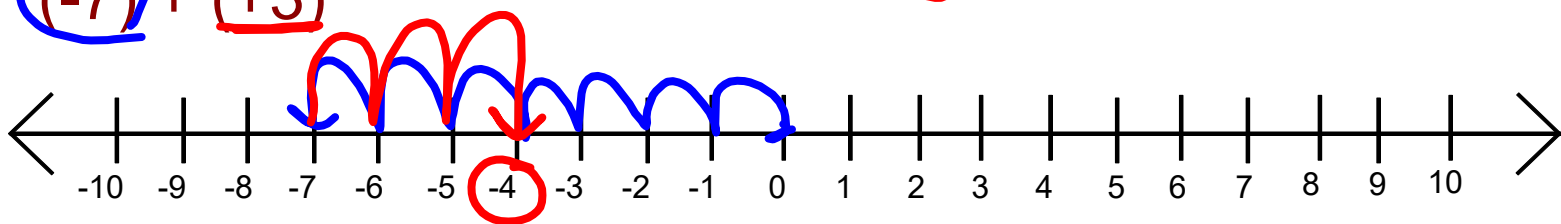
Warm Up Grade 7

Date: _____

1) Use a number line to add.

a) $(-7) + (+3)$

$= -4$



2) Fred earns \$15 but then uses his credit card and spends \$17.

a) Write the above as a sum?

$(+15) + (-17) = (-2)$

b) Explain Fred's final money situation.

Fred owes \$2.

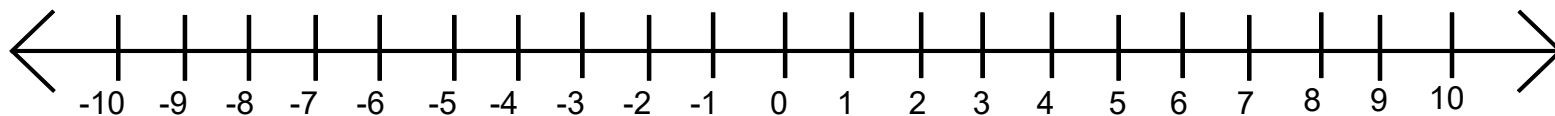
Fred is in debt \$2.

different signs
↳ what is
d. ff of

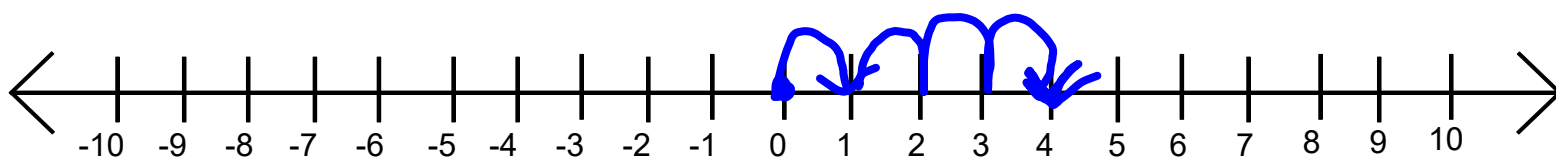
15 and 17
2

Homework Solutions

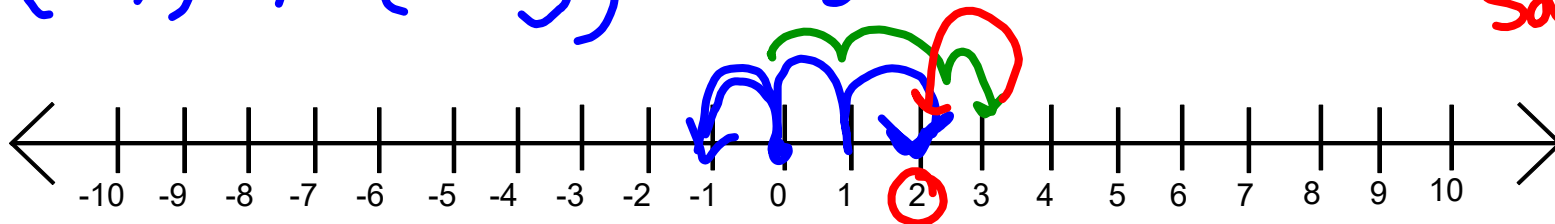
pg 62



* 1a) $(+1) + (+3) = +4$

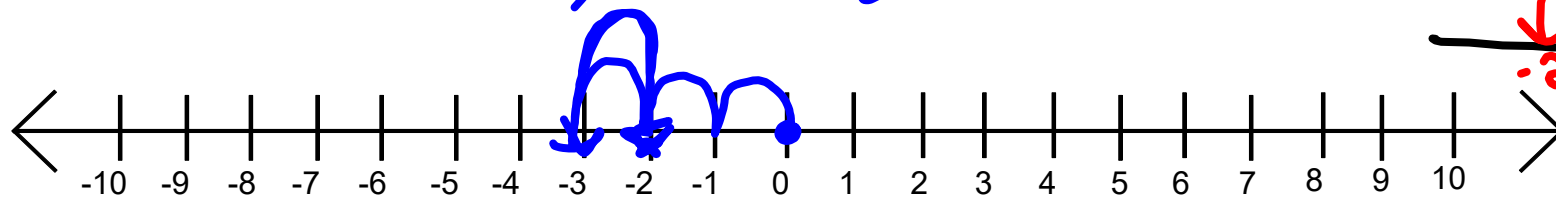


b) $(-1) + (+3) = +2$

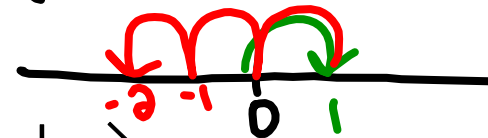


3b) $(+3) + (-1)$
 $= +2$
Same ans

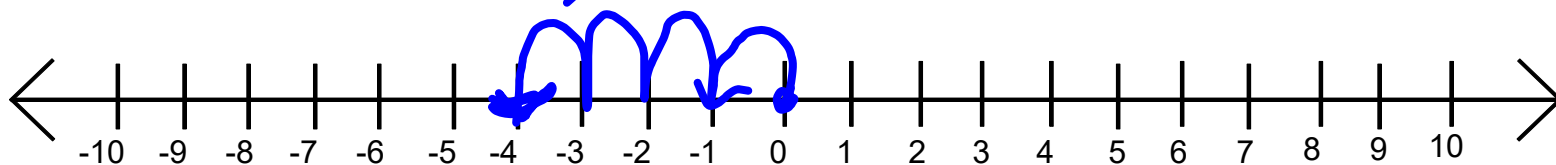
* c) $(-3) + (+1) = -2$



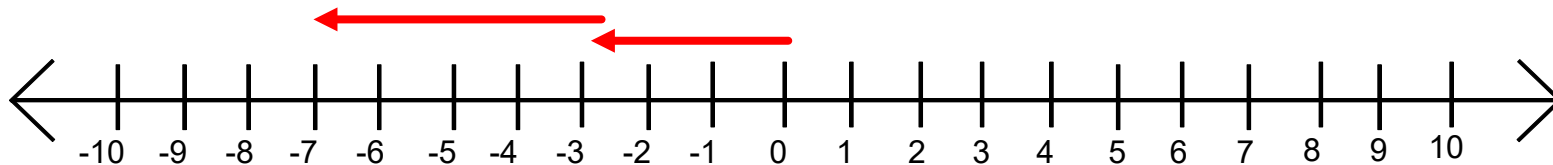
32c) $(+1) + (-3) = (-2)$
Same ans



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



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

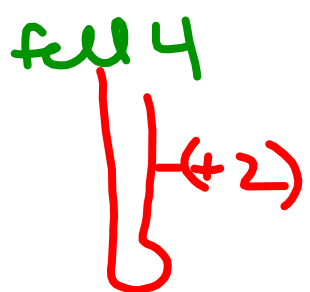


3b) Order doesn't matter when we add

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

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

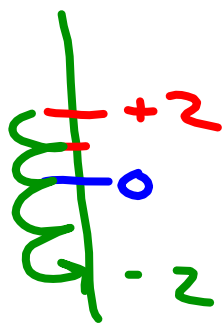
4a)



full 4

$$(+2)$$

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

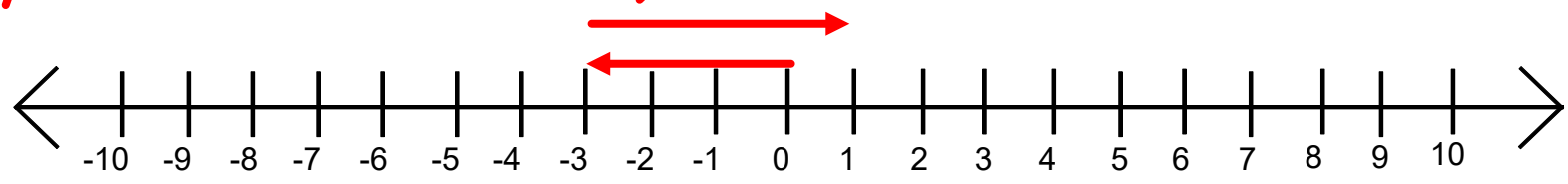


+2

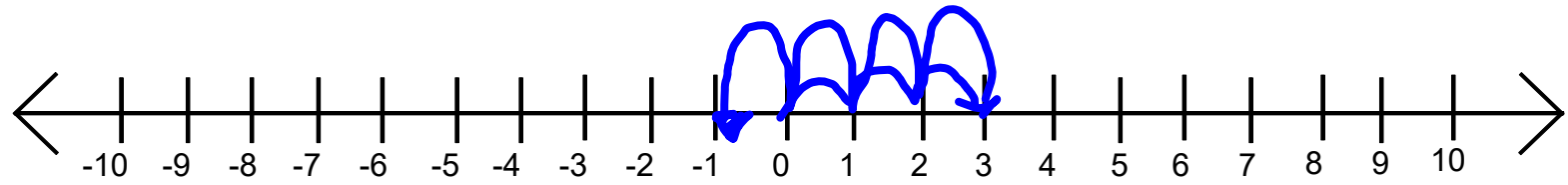
-2

Homework Solutions

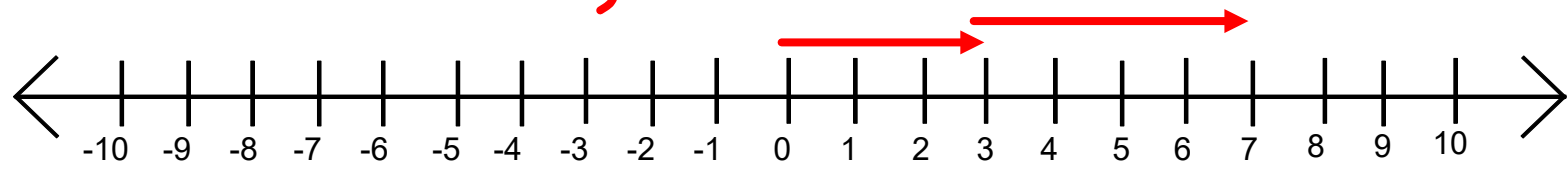
f) $(-3) + (+4) = +1$



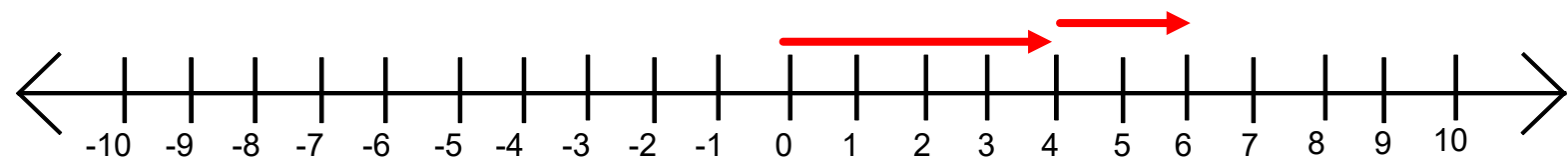
g) $(+3) + (-4) = -1$



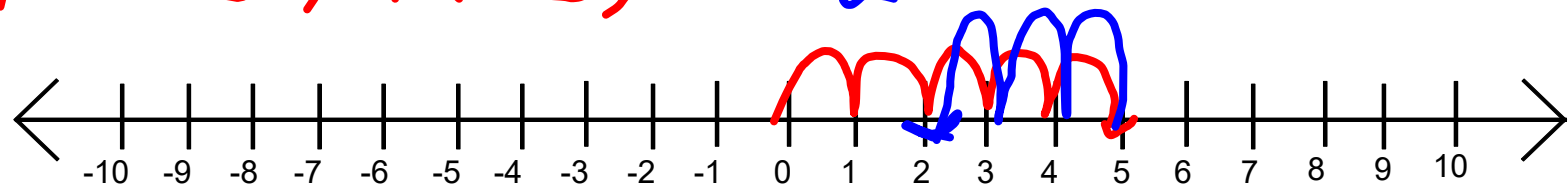
h) $(+3) + (+4) = +7$



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

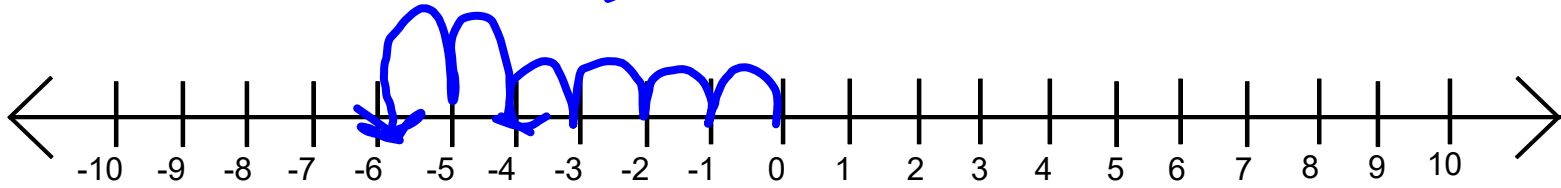


b) $(+5) + (-3) = +2$

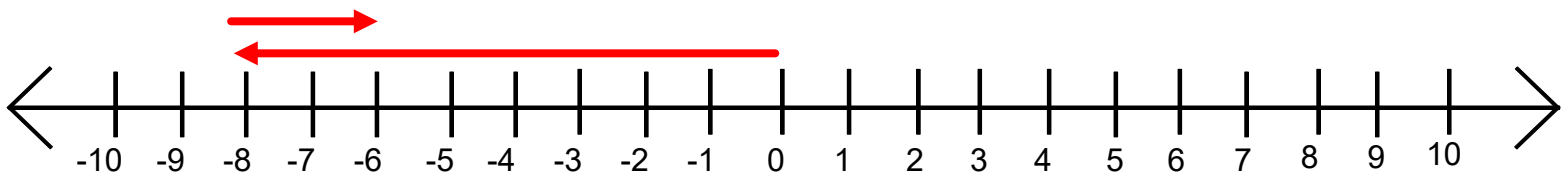


Homework Solutions

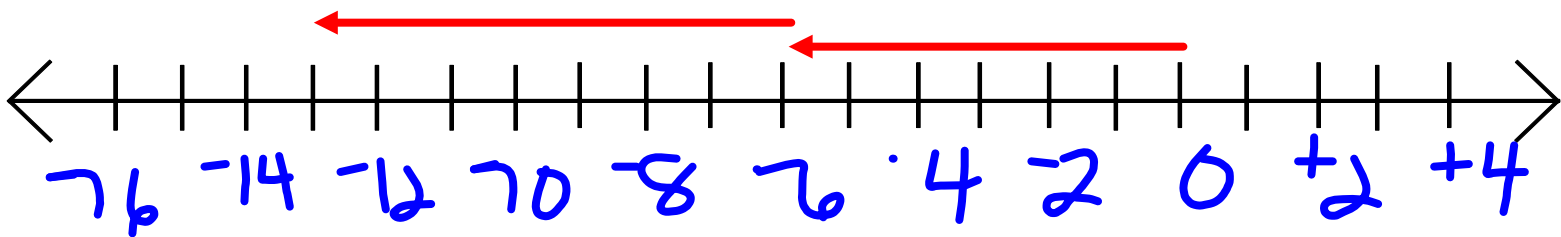
$$2c) (-4) + (-2) = -6$$



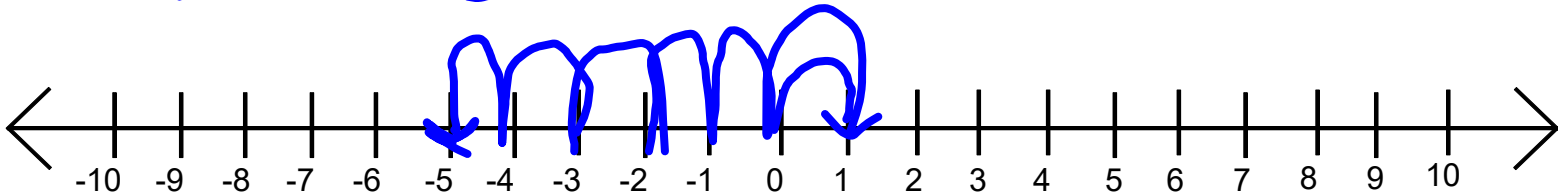
$$d) (-8) + (+2) = -6$$



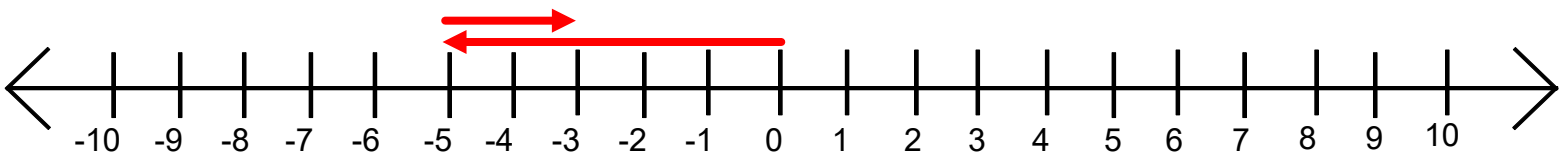
$$e) (-6) + (-7) = -13$$



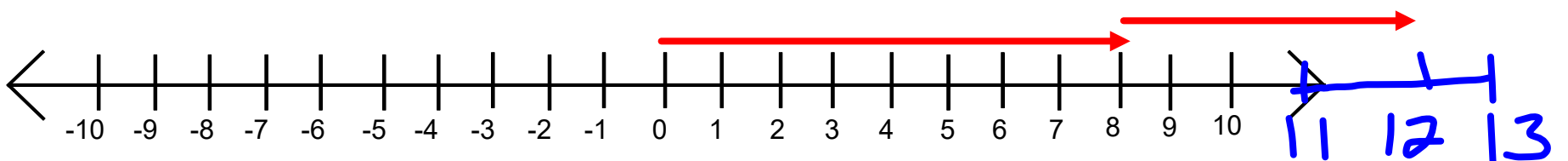
$$f) (+1) + (-6) = -5$$



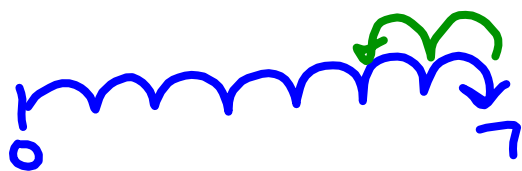
$$g) (-5) + (+2) = -3$$



$$h) (+8) + (+4) = +12$$



$$5a) \quad (+7) + (-2) = (+5)$$



$$b) \quad (-4) + (+8) = (+4)$$

$$c) \quad (+3) + (-2) = (+1)$$

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

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

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

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

overall 5°C higher

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

Adrian gained overall

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

final charge, up \$1.

b.	Integer	Opposite
a)	+2	-2
b)	-5	+5
c)	+6	-6
d)	-8	+8

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

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

$$(+6) + (-6) = 0$$

$$(-8) + (+8) = 0$$

c) The sum of two opposite integers is always zero.

Rules for Adding Integers

**When you add two positive integers,
add the numbers and your answer will be positive.**

Ex. $(+6) + (+8) = +14$

$(+11) + (+9) = +20$

**When you add two negative integers,
add the numbers and your answer will always be negative.**

Ex. $(-5) + (-7) = -12$

$(-8) + (-10) = -18$

**When you add a positive integer and a negative integer,
subtract the numbers, and keep the sign of the larger number.**

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

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

$(+9) + (-12) = -3$ ()

$(-15) + (+20) = +5$

$(-6) + (+8)$
○○○○○
●●●●●

Ex) a) $(-21) + (-8)$
 $\boxed{-29}$

b) $(+18) + (-4)$
 $\boxed{+14}$

c) $(+16) + (+3)$
 $\boxed{+19}$

d) $(-11) + (+7)$
 $\boxed{-4}$

Add the following using the rules.



(a) $+12 + (-9) = +3$ (b) $(-8) + (-3) = -11$

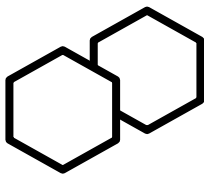
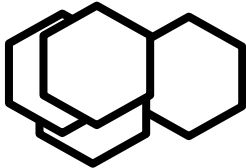
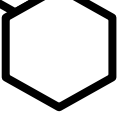
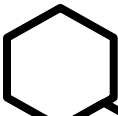
(c) $(-15) + (-6) = -21$ (d) $(+14) + (-4) = +10$

(e) $+6 + (-12) = -6$ (f) $(-25) + (+16) = -9$

(g) $(-17) + (-7) = -24$ (h) $(+30) + (-21) = +9$

(i) $(-8) + (+12) = +4$ (j) $+6 + (+8) = +14$

(k) $(-16) + (+14) = -2$ (l) $(+20) + (-7) = +13$



Rules

$$\overset{\text{Start}}{(\quad)} + \overset{\text{2nd}}{(\quad)} = \overset{\text{Stop}}{(\quad)}$$

Homework pg. 64
8, 9, 10(a,c), 11

Number lines for # 10(a,c) only



pg. 65 # 4(a,c,e), 5(a,c,e)

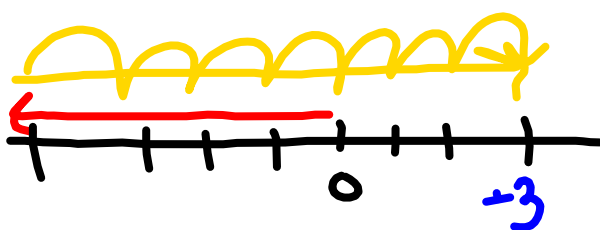
(do not have to model)

Study rules

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

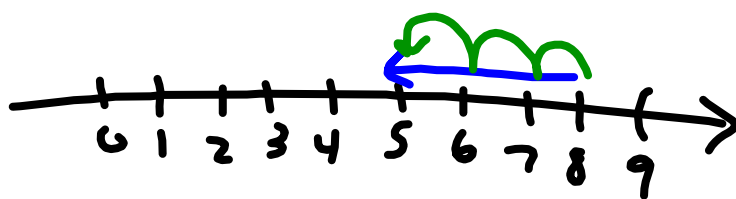
8a)

i)



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

ii



a) a) $(+1) + (-1) = 0$ True

b) $(+5) + (+8) = (+13)$
Sum of 2 positive is always $\oplus$

Sum of 2 positive is always Neg. False

9 d) $(+12) + (-2) = +10$

$(-12) + (+2) = -10$

False

Sum of positive and negative is NOT always (neg)