

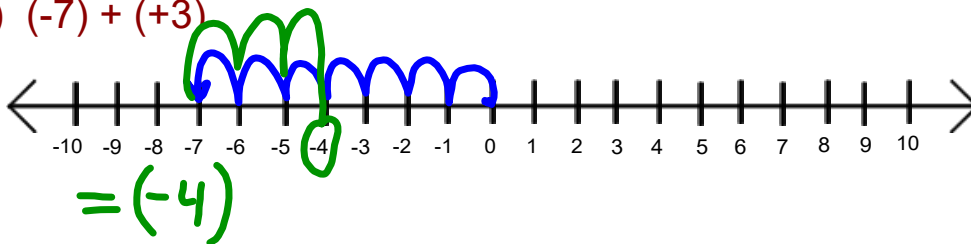


Warm Up Grade 7

Unit 2: Integers day 6
section 2.3 (day 2)

1) Use a number line to add.

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



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

a) Write the above as a sum?

b) Explain Fred's final money situation.

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

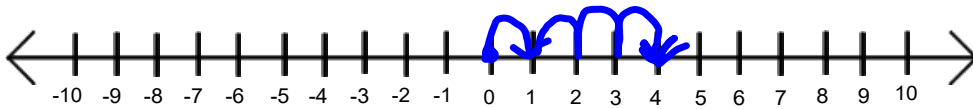
Fred owes
\$2.

Homework Solutions

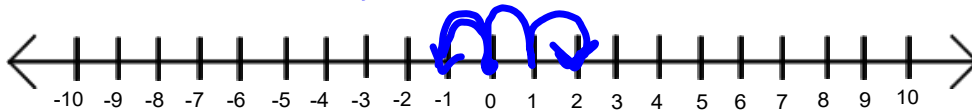
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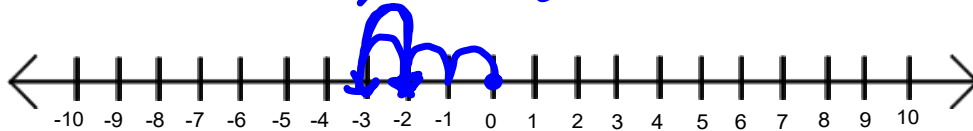
$$1a) (+1) + (+3) = +4$$



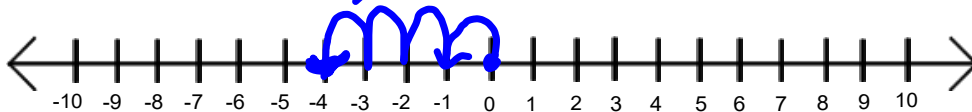
$$b) (-1) + (+3) = +2$$



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



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



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

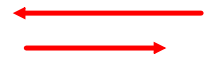
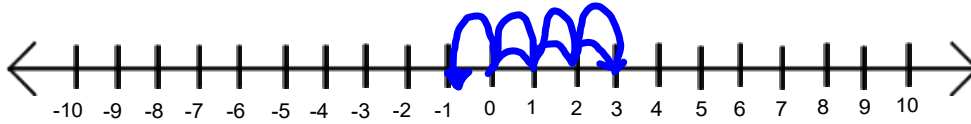


$$f) (-3) + (+4) = +1$$

Homework Solutions



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



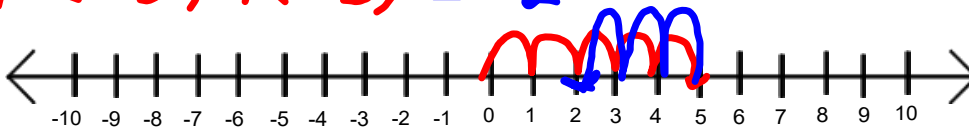
$$h) (+3) + (+4) = +7$$



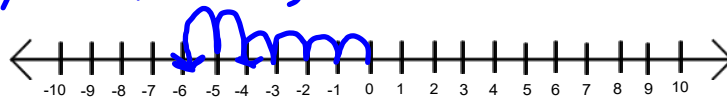
$$2a) (+4) + (+2) = +6$$



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



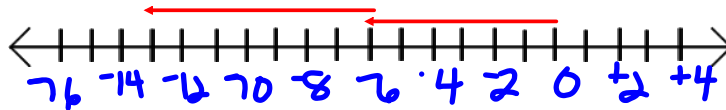
2c) $(-4) + (-2) = -6$ Homework Solutions



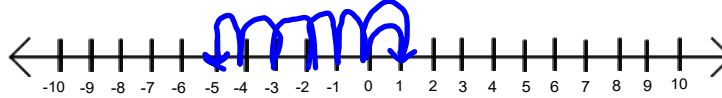
d) $(-8) + (+2) = -6$



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



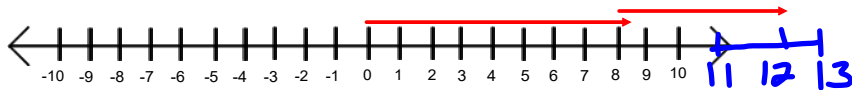
f) $(+1) + (-6) = -5$



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



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



3a) 2a) $(+2) + (+4) =$



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



3b) The answers from the reverse addition is the same as the answers in number 2.

3c) The order in which you add integers does not matter.

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

Homework Solutions

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

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

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

overall 5°C higher

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

Adrian gained overall

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

final change, up \$1.

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

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

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

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

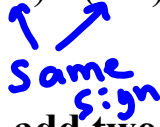
$$(-8) + (+8) = 0$$

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. $(+6) + (+8) = +14$ $(+11) + (+9) = +20$


Same
sign

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

Ex. $(-5) + (-7) = -12$ $(-8) + (-10) = -18$


Same
sign

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

Ex. $(-6) + (+8) = +2$ $(+4) + (-9) = -5$
 $(+9) + (-12) = -3$ $(-15) + (+20) = +5$

Add the following using the rules.

$$(a) \text{(+12)} + (-9) = \boxed{+3}$$

$$(c) (-15) + (-6) = \boxed{-21}$$

$$(e) \text{(+6)} + (-12) = \boxed{-6}$$

$$(g) (-17) + (-7) = \boxed{-24}$$

$$(i) (-8) + (+12) = \boxed{+4}$$

$$(k) (-16) + (+14) = \boxed{-2}$$

$$(b) (-8) + (-3) = \boxed{-11}$$

$$(d) (+14) + (-4) = \boxed{+10}$$

$$(f) (-25) + (+16) = \boxed{-9}$$

$$(h) (+30) + (-21) = \boxed{+9}$$

$$(j) \text{(+6)} + (+8) = \boxed{+14}$$

$$(l) (+20) + (-7) = \boxed{+13}$$

Homework pg. 64

8, 9, 10(a,c), 11

a Number lines for # 10(a,c) only
Give Example for #9 as proof

works



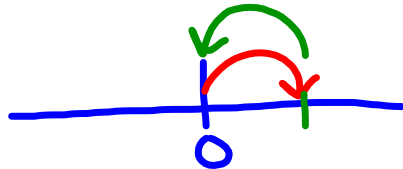
pg. 65 # 4(a,c,e) ,5(a,c,e)
(do not have to model)

Just Tubes
Same/diff
^

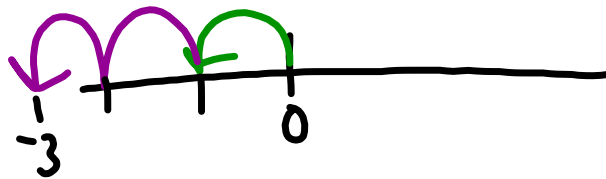
Study rules

9a) Always True, False,

a) add opposites Always True
 $(+1) + (-1) = 0$

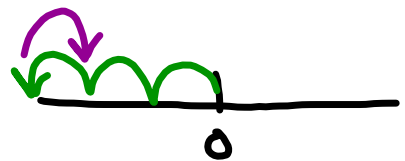
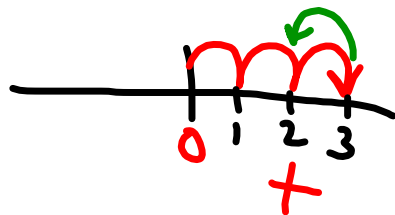


c) $(-1) + (-2) = (-3)$ Always True



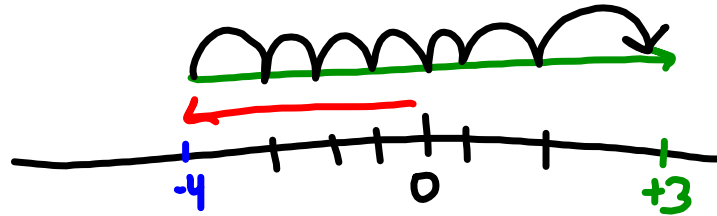
d) $(+3) + (-1) = (+2)$ or $(-3) + (+1) = (-2)$

Sometime true



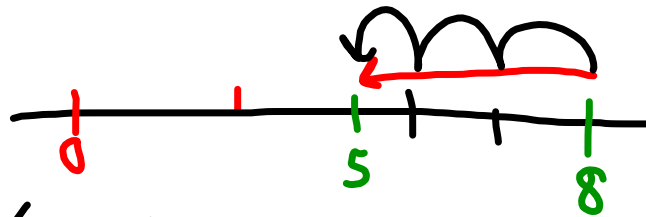
10a) $(+4) + (+3) + (-6)$
 $(+7) + (-6)$
 $(+1)$

8a)

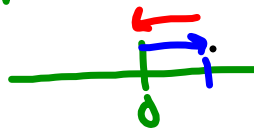


$$(-4) + (+7) = (+3)$$

i:)



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

9a) add opposites $(+1) + (-1) = 0$ Trueb) $(+1) + (+2) = (+3)$ False