



Warm Up Grade 7

ADD or Subtract

$$1. (+9) + (+3) = (+12)$$

↑ same ↑

$$2. (+7) + (-3) = (+4)$$

↖ ↗

$$3. (-16) - (+13)$$

$$(-16) \overset{\text{add}}{\downarrow} + \overset{\text{opp}}{\downarrow} (-13) = (-29)$$

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

$$= (+6) \downarrow + \downarrow (-8)$$

$$= (-2)$$

$$5. (+3) + (+13) = (+16)$$

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

$$7. (-11) - (-4)$$

$$(-11) \overset{\text{opp}}{\downarrow} + (+4) = (-7)$$

$$8. (-5) - (-15)$$

$$(-5) \overset{\text{add}}{\downarrow} + \overset{\text{opp}}{\downarrow} (+15) = (+10)$$

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Homework  
Solutions

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1. 17 red tiles      red - negative  
                                 yellow - positive

a)  $-12$       you need 5 yellow

b) 0      you need 17 yellow

c)  $+20$       you need 37 yellow

d)  $-17$       you don't need any

2. a) rises  $8^{\circ}\text{C}$

$+8$ 

1	1	1	1	1	1	1	1
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b) falls 5 $\$$

$-5$ 

-1	-1	-1	-1	-1
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c) deposit  $\$12$

$+12$ 

1	1	1	1	1	1	1	1
				1	1	1	1

d) 7 backwards

$-7$ 

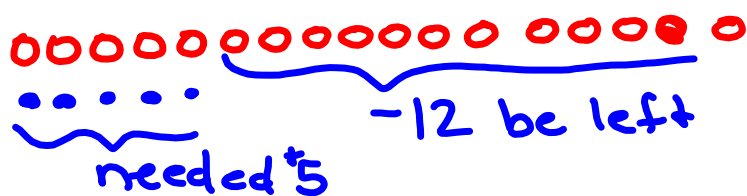
-1	-1	-1	-1	-1	-1	-1	-1
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e) 9s before take-off

$-9$ 

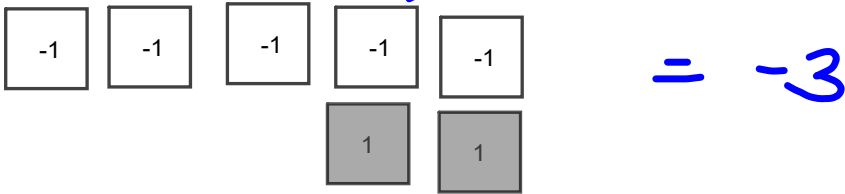
-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
----	----	----	----	----	----	----	----	----	----

$$(-17) + \overset{\text{yellow}}{(+5)} = (-12)$$

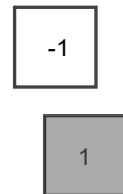
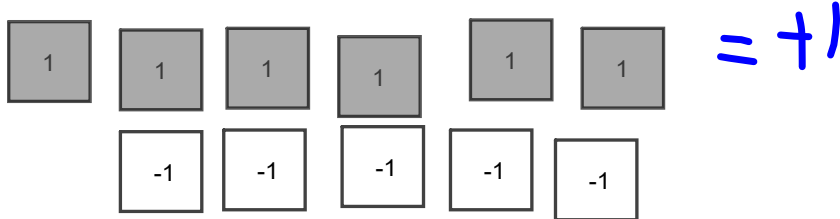


3a) 5 red, 2 yell  
 $-5 + (+2)$

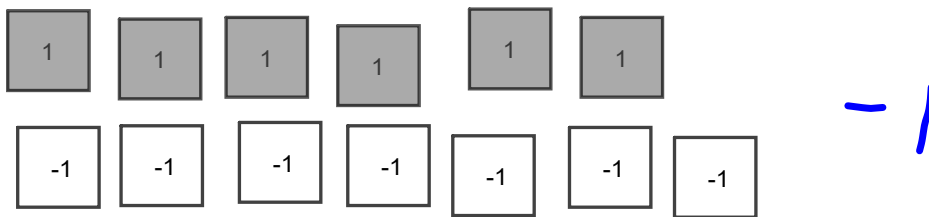
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b) 6 yellow, 5 red  
 $+6 + (-5)$



c) 6 yell, 7 red



d) 8 yell, 8 red 0

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

$$b) (-25) + (+13) = -12$$

$$c) (+15) + (-23) = -8$$

$$d) (-250) + (+80) = -170$$

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#1 to #8

5a) sum -5

$$-1 + -4$$

$$-7 + +2$$

$$-2 + -3$$

$$-10 + (+5)$$

$$-3 + -2$$

b) sum +4

$$1 + 3$$

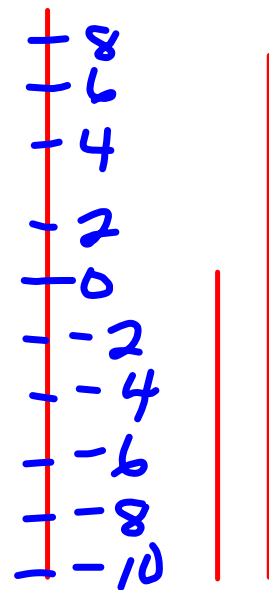
$$+5 + (-1)$$

$$2 + 2$$

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

$$3 + 1$$

$$6. -10 + (+17) = +7$$



7. a)  $-4 + (+5) = +1$

b)  $+2 + -4 = -2$

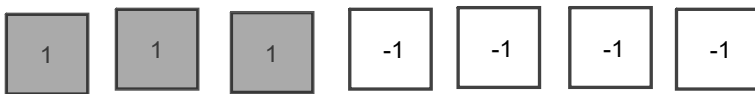
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#1 to #8

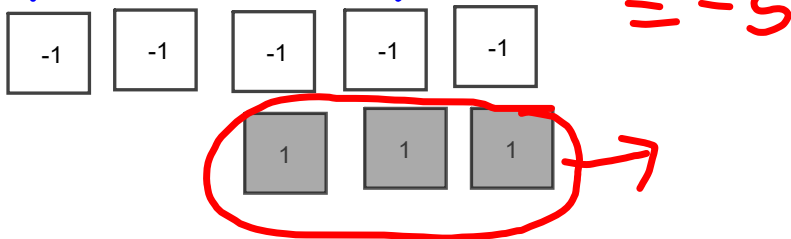
8 a)  $(-1) + (+3)$



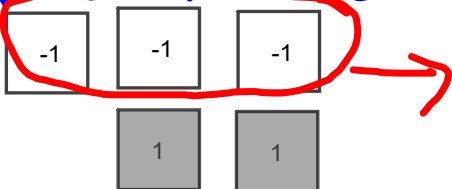
b)  $(+3) + (-4) = -1$



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



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



# Class/Homework

Page 80 Finish 7, 8  
Then

#9(a) use number line

#10

#12,(Use rules)

#13(Use Rules),

#14 (Use Rules)

#15 Use Rules

#16 Use Rules

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#1 (Use Tiles)

#2(Use Rules)

#5

Test

Oct. 4

Test (tomorrow??)

10)  $(+ ) - (+)$  *only (+)*

$$\begin{array}{r} (+9) - (+3) = (+6) \\ (+9) + (-3) \end{array}$$

Sometimes

$$\begin{array}{r} (+3) - (+9) \\ (+3) + (-9) \\ = (-6) \end{array}$$