

## Warm Up Grade 7



## Mental Math

$$1) 26 \div 10 = \underline{2.6}$$

$$2) 30 \times 50 = \underline{1500}$$

$3 \times 5 = 15$

$$3) 533 \times 100 = \underline{53300}$$

$$4) 8100 \div 100 = \underline{81}$$

$$5) 25.5 \times 10 = \underline{255}$$

$$6) 48 \times 0.5 = \underline{24}$$

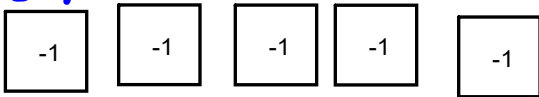
↓  
like  
half of 48

÷ by 10 ↺  
by 100 ↻  
by 1000 ↻↻

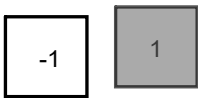
× by 10 ↻  
by 100 ↻↻  
by 1000 ↻↻↻

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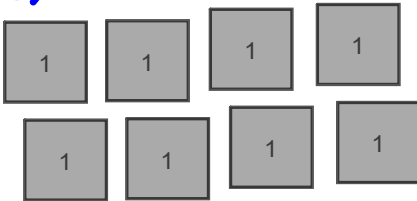
1a) -5



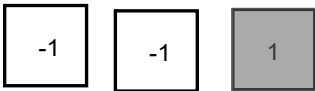
b) 0



c) +8



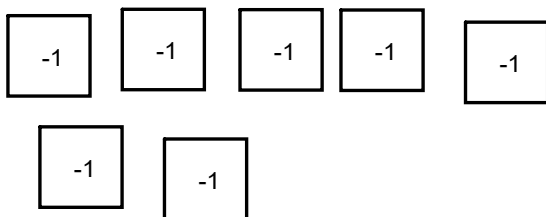
d) -1



e) +3



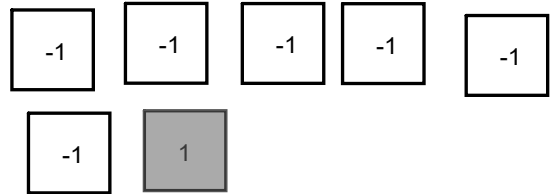
f) -7



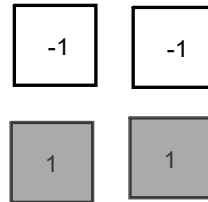
## Homework Solutions

or

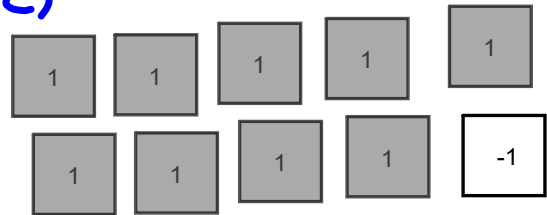
1a)



b)



c) +8



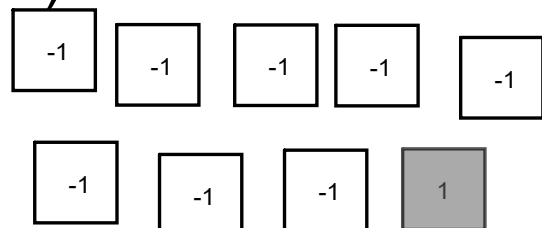
d)



e)



f)



2) 8 red  $\rightarrow$  8 negative

## Homework Solutions

you need 11 positive or yellow tile to get +3

$$(-8) + (\underline{\quad}) = +3$$

3a) 6 yellow, 1 red

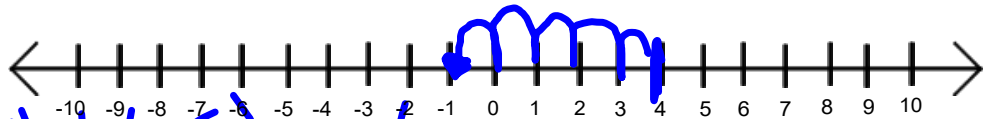
$$(+6) + (-1) = +5$$

b) 5 yellow, 7 red

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

c) 4 yellow, 4 red

$$(+4) + (-4) = 0$$



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

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

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

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

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

$$7a) (+50) + (-20) = +30 \text{ Homework Solutions}$$

$$b) (+5) + (-10) = -5$$

$$c) 124000 + (-4000) = +120000$$

$$d) +12000 + (-1200) = +10800$$

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

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

Orally go over Sheet 272 # 7-12 (questions that were not marked the previous day)

Quiz on Adding Integers

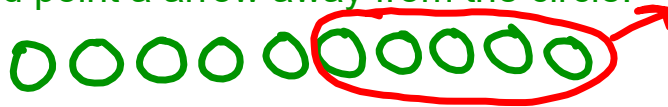
Go over

Subtracting Integers using modeling

Notes

May need to add zero pairs in order to subtract

$$(-10) \overset{\text{remove}}{\downarrow} - (-5)$$

Step 1) Model the first integerIs there enough tiles to take away  $-5$ ? \_\_\_\_\_Sept 2) Show removing by circling the tiles that need to be removed and point an arrow away from the circle.Sept 3) What remains is your answer to the difference question.

$$(-10) - (-5) = (-5)$$

$$(-10) - (-4) = ( \quad )$$

Subtracting Integers using modeling

Notes

May need to add zero pairs in order to subtract

$$(-2) \overset{\text{remove}}{\downarrow} - (-5)$$

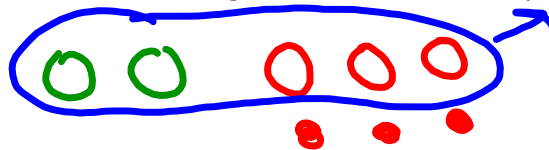
Step 1) Model the first integer

There are not enough tile to take away -5. To take away -5, we need 3 more negative tiles.

Sept 2) We add ZERO pairs without changing the value.  
Add 3 shaded and 3 unshaded to tiles.



Sept 3) Now take away 5 negative (unshaded) tiles.



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

Subtracting Integers using modeling

Notes

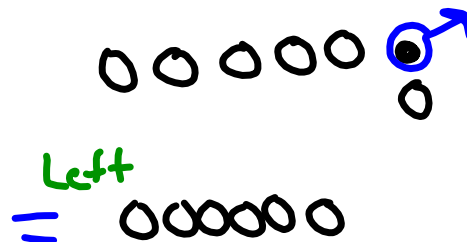
May need to add zero pairs in order to subtract

$$(-5) - (+1)$$

remove ↓  
 ↻ shaded

Step 1) Model the first integerCan you remove the second integer? +1

Step 2) We add ZERO pairs without changing the value.  
 Add 1 shaded and 1 unshaded to tiles.

Step 3) Now take away 1 positive (shaded) tiles.

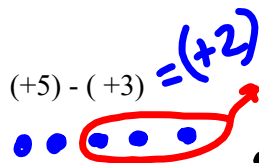
$$(-5) - (+1) = (-6)$$



Your Turn

Subtracting Integers using modeling

May need to add zero pairs in order to subtract



Redraw what is left

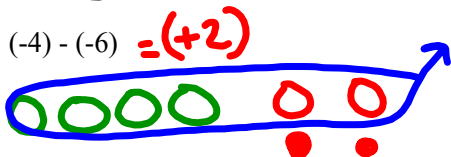
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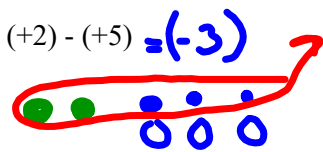
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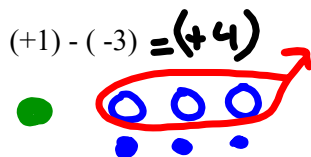
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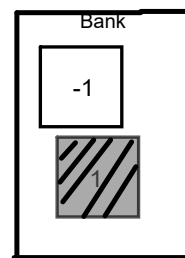
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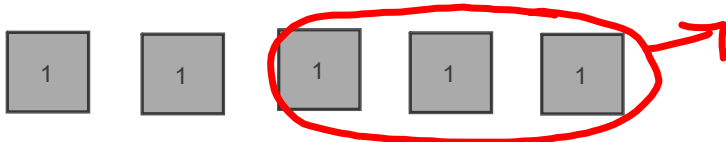
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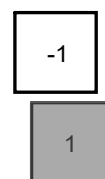
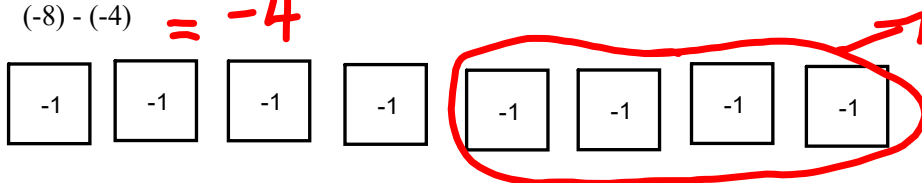
# SOLUTIONS

Subtracting Integers using modeling

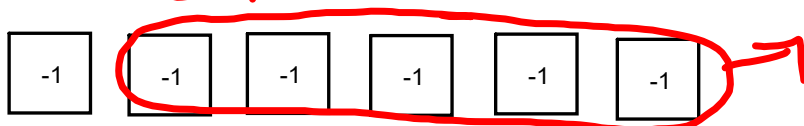
$(+5) - (+3) = +2$



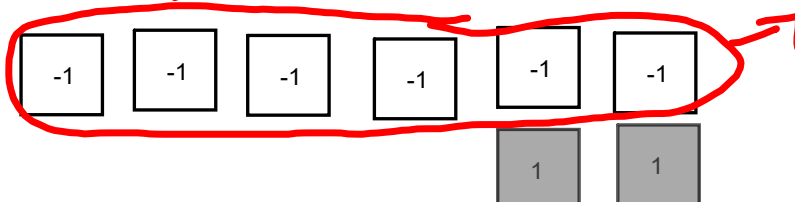
$(-8) - (-4) = -4$



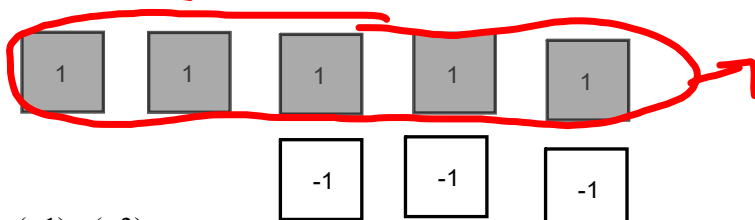
$(-6) - (-5) = -1$



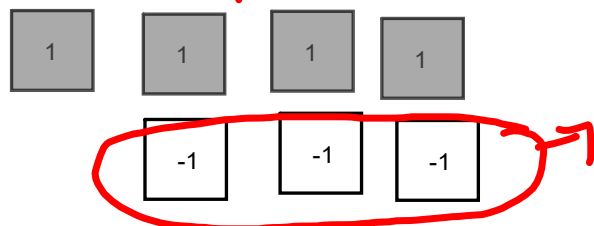
$(-4) - (-6) = +2$



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



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



# Class/Homework

#1 abcd  
 #2 abcd  
 #3 abcd  
 #4 abcd  
 #1 to #5

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model/draw tiles only when asked #1 & #2 only

28  
 Test Thursday, Sept. ~~19~~

## Attachments

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gr 7 u2 int adding integers quiz V1 V2.notebook