

## Warm Up Grade 7



## Mental Math

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

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

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

4)  $8100 \div 100 = \underline{81}$  or  $81.00$

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

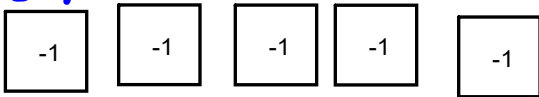
6)  $48 \times 0.5 = \underline{24}$

Same  
as  $\div 2$

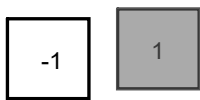
Sept. 22  
Copy out  
on paper

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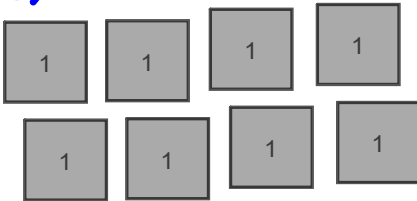
1a) -5



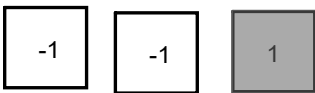
b) 0



c) +8



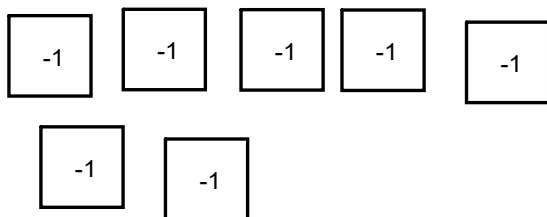
d) -1



e) +3



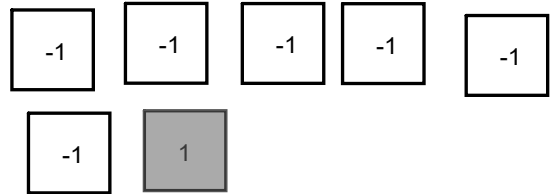
f) -7



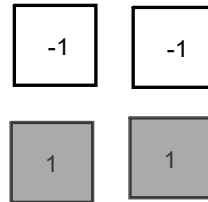
## Homework Solutions

or

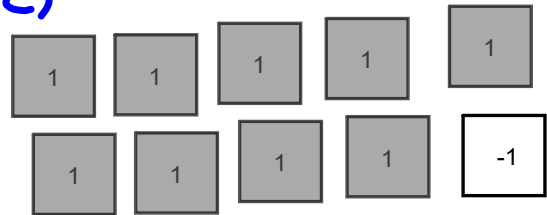
1a)



b)



c) +8



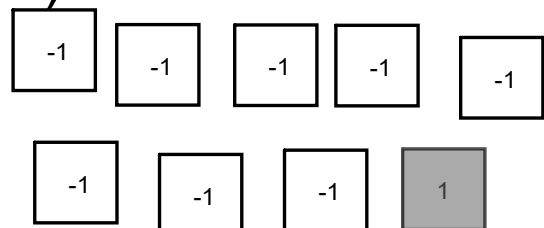
d)



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

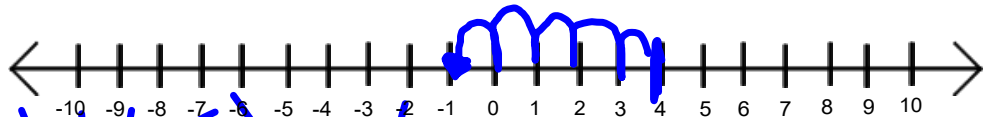
$$(+6) + (-1) = +5$$

b) 5 yellow, 7 red

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

c) 4 yellow, 4 red

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



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

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

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

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

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

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

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

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

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

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

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

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

$$\begin{array}{c} \text{remove} \\ \downarrow \\ (-10) - (-5) \end{array}$$

unshaded

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.

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

Subtracting Integers using modeling

Notes

May need to add zero pairs in order to subtract

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

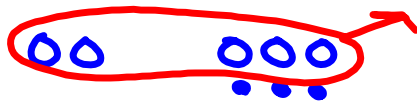
Step 1) Model the first integer

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.



$$= \dots$$

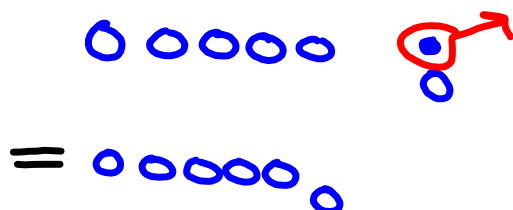
$$(-2) - (-5) = (+3)$$

Subtracting Integers using modeling

Notes

May need to add zero pairs in order to subtract

$$(-5) \overset{\text{remove}}{\downarrow} - (+1)$$

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

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

= ● ●

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

⇒ ○ ○ ○ ○

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

= ○

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

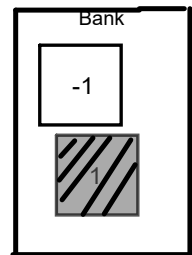
= ● ●

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

⇒ ○ ○ ○

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

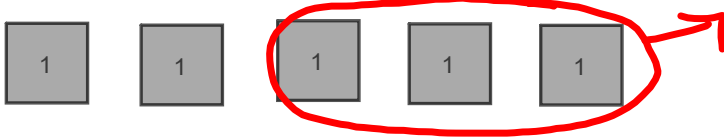
⇒ ● ● ● ●



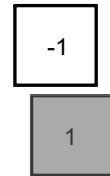
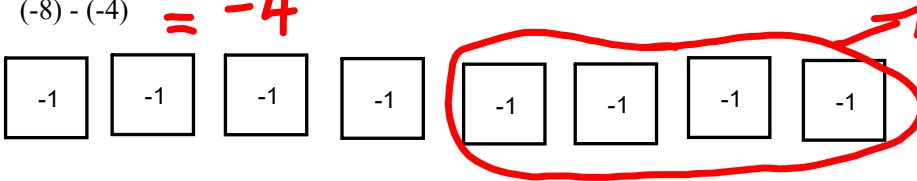
# SOLUTIONS

Subtracting Integers using modeling

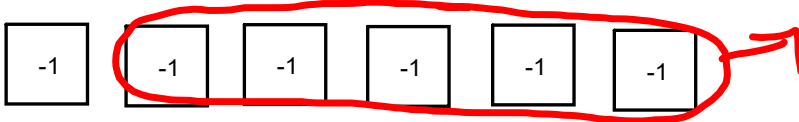
$(+5) - (+3) = +2$



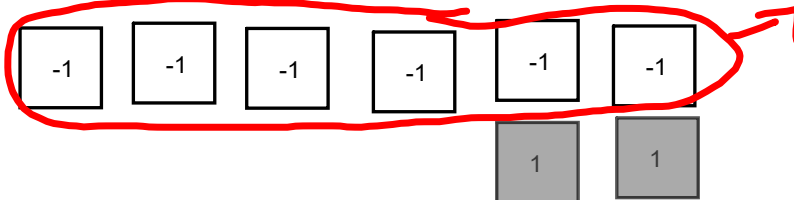
$(-8) - (-4) = -4$



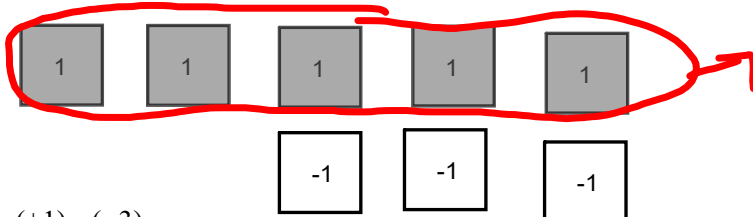
$(-6) - (-5) = -1$



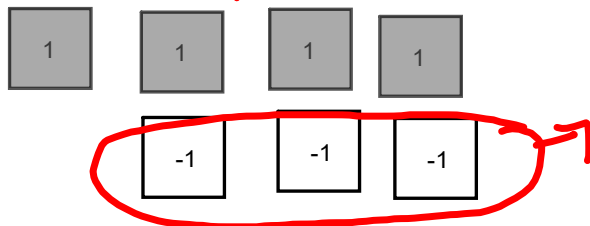
$(-4) - (-6) = +2$



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



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



# Class/Homework

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# 1 to #3

HW # 1, 2, 3

Early  
Continue # 4, 5

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

Test Thursday, Sept. 21<sup>9</sup>

## Attachments

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gr 7 u2 int adding integers quiz V1 V2.notebook