

Grade 7 Date: oct.3



Test Outline

Part A: 15 Multiple Choice

Part B: Short Response (#1 to #11)

#1) Use tiles to add

#2) Use tile to Subtract

#3) Add (Use rules)

#4) Use Subtraction rule

#5) Addition word problem

#6, #7, #8) Number Lines

#9) Fill in the blank

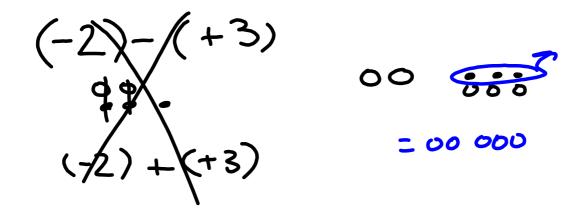
#10) Opposite integers

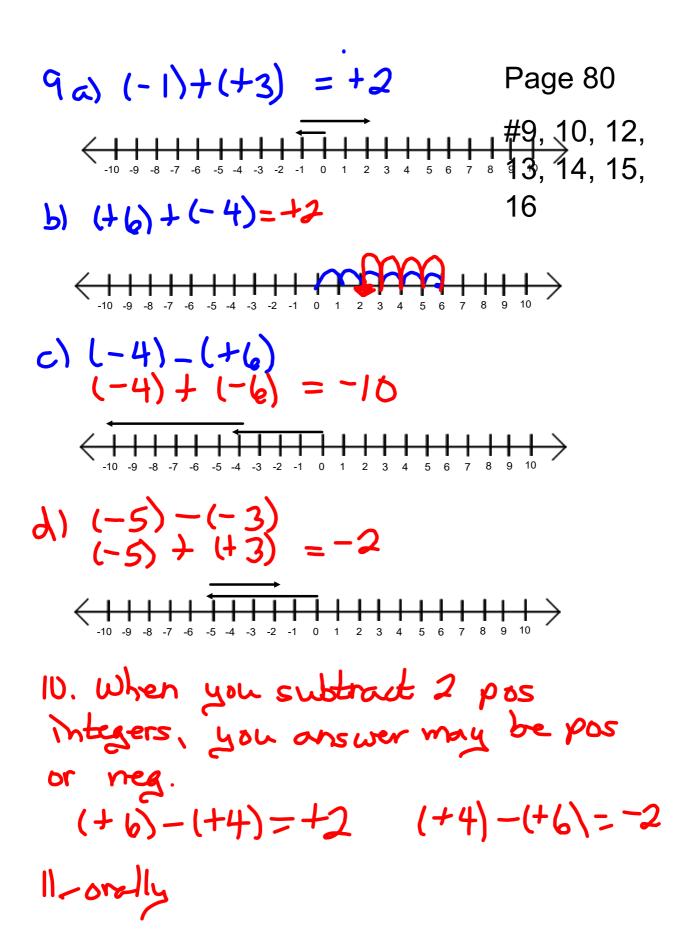
#11) True/Sometimes True/ Never True

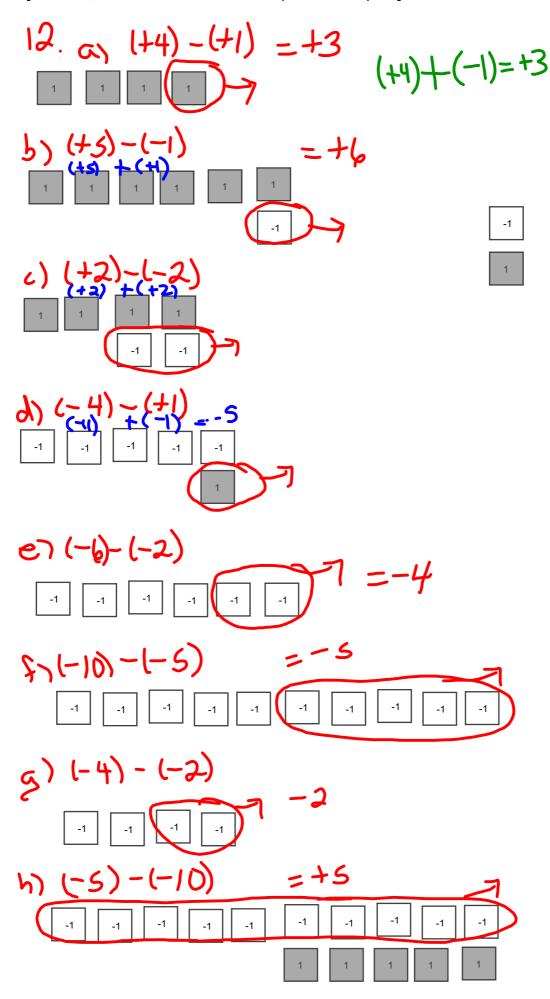
2 Bonus Questions



$$\frac{\text{Subtract Tiles}}{(+9)-(+2)=+7} = -0000000$$







$$5) (-7) - (+3) = -10$$

$$d_1 (+3) - (+3) = 0$$

e)
$$(+3) - (-3)$$

 $(+3) + (+3) = +6$

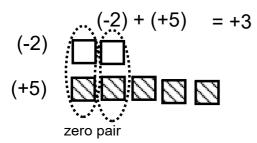
9 in the difference

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Adding with tiles

-When you add integers you represent each integer in the addition statement. (Remove zero pairs and state answer)



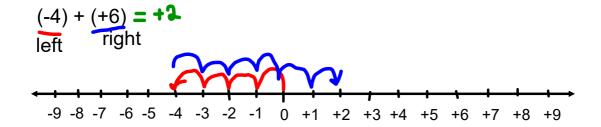
Adding with Number lines

- Always start at zero
- Count the bumps in the road for the first integer

Move to the right \Rightarrow if positive

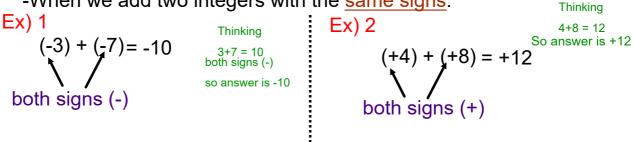
Move to the left \leftarrow if negative

- When adding the second integer we count the bumps on the road in the direction given from where we ended with the first integer.
- -Where you end up is the answer.



Adding with Rules

-When we add two integers with the same signs:



Both signs the same then just add both numbers together, ignoring the sign, and the answer has to have the same sign as the original integers

-When we add two integers with the <u>different signs</u>:

Step 1) Cover up the signs and ask yourself which number is larger.

The answer will have the sign of the bigger number

Step 2) Since they are different, ignore the sign and find the difference between the two numbers (Big minus small). That is your number for the answer

Different signs

step 1) When you cover up the signs, we have 12 & 3.

12 is Larger so our answer will have the sign on
12 which is (-)

step 2)
$$_{12-3} = 9$$

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

Different signs

 $Step~1)~{\rm between}~2~\&~7~,~7~{\rm is~bigger~so~the~sign~on~7}~$

Step 2) 7-2 = 5

gr 7 u2 int day 13 add, subtact Review for test (M. O'Keefe) Day 4 review.no@ctoobler 03, 2022

Which Number is larger? (Use <,>, =) $(-199) \square (-1)$

Word problems

Represent the following as addition using integers

Bill owed his mom \$15 and then borrowed another \$5. What is his sum?

The temperature is 15°C at lunch then drops 4°. What is the new temperature?

-1	+1

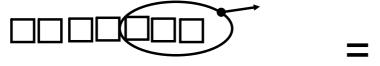
Subtracting with tiles

- Always model the first integer
- -Remove second integer

*if there are not enough to remove then add zero pairs of tiles and it does not change the question

Start with 7 negative tiles, then ask yourself if you can remove 3 negative titles. YES

To show removing, circle and point arrow away



What is left over is the answer.

Step 1) Start with 5 negative tiles, then ask yourself if you can remove 2 positive titles. NO

To show removing, circle and point arrow away

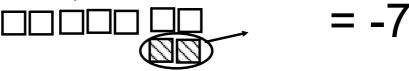


Step 2)

Need to add zero pairs (two positive and 2 negative)



Step 3) Now remove 2 positive tiles



Subtracting Rule

- Keep the sign on the first integer and "ADD the OPPOSITE"

Keep sign the same on the first integer change the subtraction to addition and change the sign on the second integer.

THEN USE ADDITION RULES

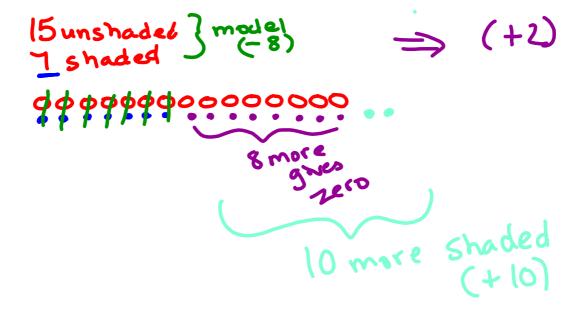
Ex 1)
$$(+9)$$
 - (-5)
 $(+9)$ + $(+5)$ \longrightarrow must show this step
now addition rule
 $(+9)$ + $(+5)$ = +14

Test Tomorrow

STUDY How?

Practice

Test Review Worksheet Sheet



Unit 2 Integers_Math Grade 7_Test Review.pdf