

Name: _____ Period: _____

Week 6 Homework Packet – 7th Grade Math Honors

SCORE
/4

WEEK SCORE
/12

Stamp

ASSIGNMENT DUE TUESDAY, SEPTEMBER 13, 2016

Unit 1, Chapter 1 - The Language of Algebra

Evaluate each expression below:

1) $3 + (-5)$

2) $-8 + 9$

3) $-11 + (-14)$

4) $-2 + 5 + (-7)$

5) $3 + (-14) + (-2)$

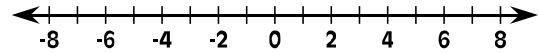
6) $-9 + 4 + 9$

7) $-12 + 4 + 7 + (-5)$

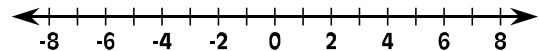
8) $6 + (-4) + (-12) + 8$

For problems 9–13, graph the number on the number line.

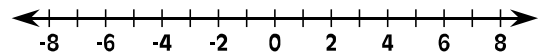
9) 4



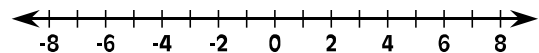
10) $5\frac{1}{2}$



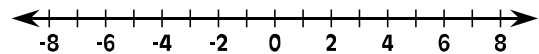
11) -2



12) 0

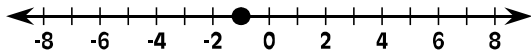


13) $-7\frac{1}{2}$

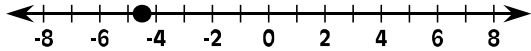


For problems 14–18, write in the box on the right the number that is represented by the number line.

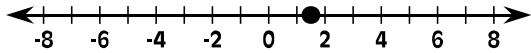
14)



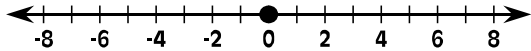
15)



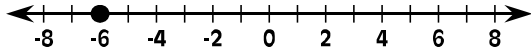
16)



17)



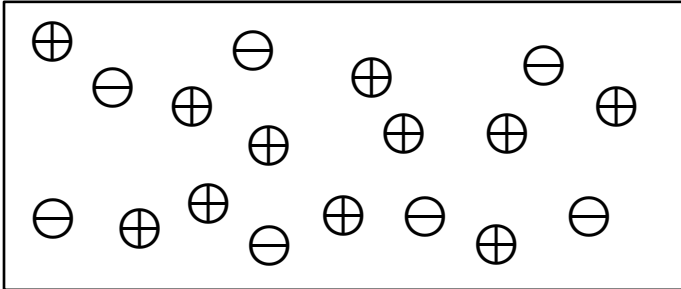
18)



ASSIGNMENT DUE WED/THU, SEPTEMBER 14/15, 2016

Unit 1, Chapter 1 - The Language of Algebra

Use the graphic below to answer questions 1–5.



- 1) In the graphic, the \oplus symbols represent positive numbers and the \ominus symbols represent negative numbers. How many more \oplus signs are there than \ominus signs?

- 2) Now, you will subtract four of the \ominus symbols by scribbling them out.

- 3) Count the number of each symbol again. How many more \oplus signs are there than \ominus signs now?

- 4) Examine your answers to questions 1 and 3. Describe in words how you would compare the effects of subtracting four negative numbers to the effects of adding four positive numbers.

- 5) Write a mathematical expression or equation that models the situation from problems 1–4.

Evaluate the problems below. Be sure to read the problems carefully. Some will ask you to add and some will ask you to subtract.

6) $5 - (-4)$

Answer

7) $6 - 13$

Answer

8) $-14 + 8$

Answer

9) $12 - (-3)$

Answer

10) $-5 + (-9)$

Answer

11) $-8 - (-5)$

Answer

12) $13 - 11$

Answer

13) $2 - (-17)$

Answer

14) $0 - 18$

Answer

15) $-3 + (-7)$

Answer

Name: _____

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7th Grade Math Honors

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ASSIGNMENT DUE FRIDAY, SEPTEMBER 16, 2016

Unit 1, Chapter 1 - The Language of Algebra

Write an integer to represent each situation below. Explain why the integer you chose is the correct answer. One has been done for you. (Note: you will not receive a stamp if you do not include explanations!)

Ex.) You owe somebody fourteen dollars.

-14. Since you owe money, you have less than zero dollars so it should be negative.

1) A scuba diver dives sixteen feet below the surface.

2) A parachutist opens her parachute when she is five thousand feet in the air.

3) The weather forecast of Anchorage, Alaska is predicting temperatures of eight degrees above zero.

4) Death Valley in California has an altitude of 279 feet below sea level.

5) Two siblings running a lemonade stand sell twenty more lemonades than they thought they would.

Evaluate each of the following expressions involving absolute values. Be sure to show all of your work to get a stamp.

6) $|5| - |-3|$

7) $|-15| \div 3$

8) $|17 - 6|$

9) $11 \cdot |-2|$

10) $|-8| + |4|$

11) $|3| + |-6| - |4|$

12) $|2 - 3|$