Review Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Unit 1 Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Period\_\_\_\_\_\_\_\_\_\_\_\_

1. Correctly place each integer along the number line. Not all numbers will be used.

**5 , 15 , - 5 , -25 , - 10, 20 , -15**

22

**0**

**25**

 What is the scale used? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. The table below shows the low temperatures (ºC) of several cities.

|  |  |
| --- | --- |
| City | TemperatureºC |
| Boston | -15 |
| Lymon | -26 |
| Dallas | 8 |
| Beaumont | 6 |
| Chicago | -12 |

Which city listed above has the lowest temperature? \_\_\_\_\_\_\_\_

3. Draw a zero pair. What does it mean to have zero pair?

4. Simplify each using Algebra tiles:

 a) 3 – 5 b) -2 + 3 c) -4 – 2

5. Identify each statement as **A** (*Always True)*, **S** (*Sometimes True),* or **N** (*Never True)*

 about integers (*p* represents positive integers and *n* represents negative integers)

 A.  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 B.  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 C.  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 D.  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

6. Jim kept a record of the weekly balance in his checking account. The balances for the last

 four weeks were $ -8, $28, $54, and $13. What is the difference between the highest and

 lowest balance?

7. List and explain the order of operations.

8. Simplify each expression.

 a) $2\left(3+5\right)∙(2^{2}-3)$ b) $\frac{32÷4}{2^{2}-7}$ c) $14-3^{2}÷2$

9. Ivette, Jose, and Courtney simplified the problem $-2-(3+4)$. Ivette’s answer was ,

 Jose’s answer was  and Courtney’s answer was . Which student had the correct

 answer? Justify your answer.

10. b is called the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and it represents the number of times a, the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is used as a factor.

11. Powers represent repeated \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

*Simplify the following*

12. - 1 + - 12 14. 6 - - 2 15. $-2∙ -5$ 16. $8∙ -3$

18. $-18÷3$ 19. $100÷-2$ 20. $7^{2}∙7^{3}$ 21. $(-5x)^{2}$

22. $(-3)^{-3}$ 23. $\frac{x^{-3}}{x^{-2}}$ 24. $\frac{3x^{2}y}{y^{2}}$ 25. $\frac{x^{-3}}{x}$

Simplify then Evaluate when a=2 and b=1.

26. $\frac{(b^{0})^{-3}}{a}$ 27. $\frac{(ab)^{-4}}{b^{2}}$

28. $\frac{(ab)^{3}}{b}$ 29. $((2b)^{2})^{-3}$