Integers

Name
Date

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1. Define “integers”

2. How is a sign of value different than a sign of operation?

3. Write the six rules for operating with signed numbers.

4. Define $|x| =$

5. Identify the operation of each of the following problems; add, subtract, multiply, or divide.

   a. $(+8) + (-2)$ _____

   b. $(-5) - (+3)$ _____

   c. $(5)(-4)$ _____

   d. $-6 - 7$ _____

6. Evaluate

   a. $|5| =$

   b. $|-7| =$

   c. $|-5 + 3| =$

7. On January 8th, the temperature in Miami was 67° while the temperature in Boston was four below zero. What was the difference in temperatures?

8. Use the number line model to illustrate $(+3) + (-4)$

9. Bob had $250 in his savings account on July 1st. If he wrote checks for $110, $165, and $85 during that month and made 2 deposits, one for $100, the second for $75, what is his balance at the end of the month?

10. Evaluate

    a. -3^2

    b. $(-5)^2$

Perform the indicated operations

11. $(-5) + (-6)$

12. $(+6) - (-2)$

13. $(-6)(-5)$

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

15. $-3 - 2 - 5$

16. $+8 - 10 + 3 - 6$

17. $6 + 5(-4) - 2(3)$

18. $(-5)^3 - 5$

19. $-10 - 8(-3) \div 6(-2)$

20. Draw a block model to show that $(+7) - (-3) = +10$