

Math 7 Practice Test: Integers

Name:

Date:

1. Define and give an example of *absolute value*.
2. Define and give an example of *integers*.
3. Draw a model to show that $+2 + (-3) = -1$.
4. Explain how the signs of two integers affect their quotient. (You may use specific numbers.)

Simplify problems 5 – 12.

5. $-2 + 7 - 3$

6. $-3 - 8$

7. $-2(3)(-4)$

8. $-27 \div 3$

9. $|5|$

10. $|-7|$

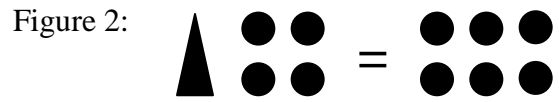
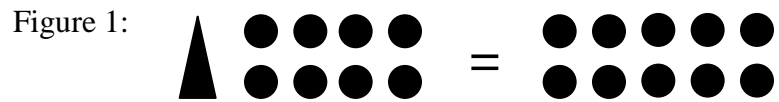
11. $|-9 + 5|$

12. $\frac{-3 + 5^2 + 3}{3(-2)^2}$

13. One day the temperature increased from -5 to 7 degrees. What was the total change in temperature on this day?

- A. -12
- B. -2
- C. 2
- D. 12

14. Two figures are shown below. Each figure models a different equation. The equation $x + 8 = 10$ is modeled by figure 1.



Which equation is modeled by Figure 2?

- A. $x + 2 = 6$
- B. $x + 4 = 6$
- C. $4x = 6$
- D. $4x + 1 = 6$

15. For which equation is -4 a solution?

- A. $x - 2 = -6$
- B. $x + 6 = -2$
- C. $-5x = -20$
- D. $\frac{x}{-2} = 8$

Solve the following equations. Show your work.

16. $x + 5 = -3$

17. $x - 6 = -5$

18. $\frac{x}{3} = -4$

Solve the following equations. Show your work.

19. $-3x = -18$

20. $2x - 3 = -9$

21. $\frac{x}{5} + 3 = -8$

22. The balance of Maria's bank account was \$17 at the beginning of the month. She wrote two checks, one for \$11.00, the second for \$8.00, and she made a deposit of \$25.00.

A. Write a numeric expression that reflects these account transactions.

B. What is the balance in her account after these transactions?

23. The elevation of the highest point in a region is 1,226 m above sea level. If the difference between the highest and lowest point in the region is 1,456 m, find the elevation of the lowest point.