

Math 7
Period_____

Name_____
Date_____

Review: Rational Numbers

1. Evaluate each expression if $a = -1$, $b = 2$ and $c = 1$

a. $3a - bc$

b. $-2ab - 2c$

c. $a^2 + 4b + c$

d. $(abc)^2$

Solve:

2. The temperature in Huntington was 19.2°C during the day. At night the temperature was -5.1°C . What is the difference in the temperature? _____

3. During a week, the stock of Google had the following daily changes in price: Monday, up 7 points, Tuesday, down 3 points, Wednesday, up $2\frac{1}{2}$ points, Thursday, up $1\frac{3}{4}$ points and Friday, down $\frac{3}{8}$ of a point. What was the net change in price of the stock for the week? _____

Perform the indicated operation. Write your answer in simplest form. Box your answer.

4. $\frac{4}{8} + \frac{-2}{8}$

5. $\frac{-4}{12} + \frac{1}{6}$

6. $\frac{3}{4} + (-2\frac{1}{3})$

7. $-6.5 + 2.25$

8. $-10.24 - (-3.71)$

9. $-2\frac{1}{2} + -4\frac{1}{8}$

10. $\frac{4}{7} - \frac{-6}{7}$

11. $\frac{-1}{3} - \frac{-2}{7}$

12. $\frac{-3}{4} \cdot \frac{1}{8}$

13. $-4\frac{1}{2} \cdot (-2\frac{3}{5})$

14. $(-3.1)(4.06)$

15. $\frac{1}{2} \div \frac{-3}{8}$

16. $-3\frac{2}{5} \div (-4)$

17. $-0.25 \div 0.05$

Match the property with the given example:

18. $3(a + 5) = 3 \cdot a + 3 \cdot 5$ _____

a. Associative of +

19. $-3 + 0 = -3$ _____

b. Distributive

20. $2 + (5 + 3) = (2 + 5) + 3$ _____

c. Commutative of +

21. $4 + 3 = 3 + 4$ _____

d. Additive Identity

22. $2(5b) = (5b)2$ _____

e. Multiplicative Identity

23. $10 \cdot 1 = 10$ _____

f. Commutative of \cdot

True or False:

24. $\frac{0}{5} = 0$ _____

25. $\frac{-2}{3} = \frac{2}{-3} = \frac{-2}{-3}$ _____

26. $-3^2 = 9$ _____

27. $x + (-7) = x - 7$ _____