

Chapter 2 Section 4: Multiplying and Dividing Signed Numbers and Variables

Problems

Complete each of the following with either the word positive or the word negative.

1. The product of two positive numbers is always _____
2. The quotient of two numbers with the same sign is always _____
3. The product of two negative numbers is always _____
4. The product of a positive and negative number is always _____
5. The product of an even number of negative numbers is always _____
6. The quotient of a negative numerator divided by a positive denominator is always _____

Simplify each of the following.

7. $(-5) \times (-9) =$ _____
8. $26 \times (-ab) =$ _____
9. $(-ax) \times 5 =$ _____
10. $(-8) \times (-2) =$ _____
11. $(-2a) \times (-6b) =$ _____
12. $(-4x) \cdot (-8a) =$ _____
13. $7 \cdot 2t =$ _____
14. $-9 \cdot 5a =$ _____
15. $3(6s) =$ _____
16. $(12a) \times 0 =$ _____
17. $(-9r)(-2) =$ _____
18. $4(8 - 3) =$ _____
19. $-4(a + (-a)) =$ _____
20. $-5(-a + (-a)) =$ _____
21. $10(-2)(-1)(-5)(-3) =$ _____
22. $10(-2)(-4)(-2) =$ _____
23. $(-a)b(c) =$ _____
24. $\left(-\frac{4}{2}\right) \cdot (-a) =$ _____
25. $(-b) \cdot \left(\frac{8}{2}\right) =$ _____
26. $-9 \div 3 =$ _____
27. $\frac{-10}{-2} =$ _____