

LESSON
6•4
*** , / of Positive and Negative Numbers**
A Multiplication Property

For all numbers a and b , if the values of a and b are both positive or both negative, then the product $a * b$ is a positive number. If one of the values is positive and the other is negative, then the product $a * b$ is a negative number.

A Division Property

For all numbers a and b , if the values of a and b are both positive or both negative, then the quotient a / b is a positive number. If one of the values is positive and the other is negative, then the quotient a / b is a negative number.



Solve. Use a calculator to check your answers.

1. $-7 * 8 =$ _____
2. $73 * (-45) =$ _____
3. _____ $\div (-10) = 70$
4. $\frac{1}{2} * (-\frac{3}{4}) =$ _____
5. $0.5 * (-15) =$ _____
6. _____ $* 3.3 = -3.3$
7. $-3 * 4 * (-7) =$ _____
8. _____ $* (-8) * (-3) = -48$
9. $-54 / 9 =$ _____
10. $36 / (-12) =$ _____
11. $-\frac{3}{5} \div (-\frac{4}{5}) =$ _____
12. $45 / (-5) / (-3) =$ _____
13. _____ $\div 15 = -6$
14. $72 / (-8) =$ _____
15. $-99 /$ _____ $= -11$
16. $\frac{1}{2} \div (-\frac{3}{4}) =$ _____
17. $-3 * (-4 + 6) =$ _____
18. $32 \div (-5 - 3) =$ _____
19. $(-9 * 4) + 6 =$ _____
20. $(-75 / 5) + (-20) =$ _____
21. $(-6 * 3) + (-6 * 5) =$ _____
22. $(4 * (-7)) - (4 * (-3)) =$ _____

Evaluate each expression for $y = -4$.

23. $3 - (-y) =$ _____
24. $-y / (-6) =$ _____
25. $y - (-7 + 3) =$ _____
26. $y - (y + 2) =$ _____
27. $(-8 * y) - 6 =$ _____
28. $(-8 * 6) - (-8 * y) =$ _____