

Multiplying Integers

When multiplying integers, follow these rules. Notice that multiplication is shown using parentheses around one or both integers to avoid confusing operation signs and negative number signs.

Rule 1: To multiply numbers with the same sign, multiply and give the answer a positive sign.

Rule 2: To multiply numbers with different signs, multiply and give the answer a negative sign.

Rule 3: To multiply several signed numbers, multiply the numbers two at a time using Rules 1 and 2.

Multiply $(-3)(-6)$

Use Rule 1.

$$(-3)(-6) = 18$$

Multiply $(4)(-2)$

Use Rule 2.

$$(4)(-2) = -8$$

Multiply $(-5)(5)(-2)$

Use Rule 3.

$$\begin{aligned} (-5)(5) &= -25 \\ (-25)(-2) &= 50 \end{aligned}$$

Multiply.

1. $-9(3)$
 $(-9)(3) = -27$

$(-5)(-6)$

$4(-8)$

$(8)(-9)$

2. $-1(-5)$

$-7(2)$

$9(-12)$

$(11)(-2)$

3. $2(1)$

$-3(-4)$

$6(-7)$

$-10(-11)$

4. $12(9)$

$15(-10)$

$-20(-6)$

$16(-3)$

5. $-6(8)$

$-9(9)$

$-7(-11)$

$11(-2)$

6. $(9)(-2)(3)$

$(-13)(-7)(2)$

$(3)(5)(-3)$

7. $(-1)(20)(-4)$

$(-2)(-3)(7)$

$(10)(-10)(-6)$

8. $(4)(13)(0)$

$(-9)(-9)(-2)$

$(14)(-1)(3)$

9. $(-4)(4)(3)(-4)$

$(12)(2)(-2)(7)$

$(-8)(-9)(-1)(-3)$

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Answer Key

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|----|-----|------|------|-----|
| 1. | -27 | 30 | -32 | -72 |
| 2. | 5 | -14 | -108 | -22 |
| 3. | 2 | 12 | -42 | 110 |
| 4. | 108 | -150 | 120 | -48 |
| 5. | -48 | -81 | 77 | -22 |
| 6. | -54 | 182 | -45 | |
| 7. | 80 | 42 | 600 | |
| 8. | 0 | -162 | -42 | |
| 9. | 192 | -336 | 216 | |

