

## Multiplying Integers

MDI 1

**Instructions:** Count the number of negative factors to figure out if the answer will be positive or negative. If there is an **even** number of negative factors, the answer will be positive. If there is an **odd** number of negative factors, the answer will be negative. **Note:** The parentheses ( ) mean the numbers are being multiplied together.

1  $(-1)(-1)(-1) = -1$

2  $(1)(-1)(-1) = +1$

3  $(1)(-1)(1)(-1) = +1$

4  $(1)(-1)(-1)(-1) = -1$

5  $(-1)(-1)(-1)(-1) = +1$

6  $(-1)(1)(-1)(-1) = -1$

7  $(-1)(-1)(-1)(-1)(-1) = -1$

8  $(-1)(1)(-1)(-1)(-1) = +1$

**Instructions:** Multiply these integers.

1  $3 \times -3 = -9$

2  $-4 \times -4 = 16$

3  $-8 \times 2 = -16$

4  $5 \times -6 = -30$

5  $-6 \times -3 = 18$

6  $-3 \times -7 = 21$

7  $12 \times -4 = -48$

8  $-10 \times 10 = -100$

9  $-3 \times -3 \times -3 = -27$

10  $7 \times -1 \times -7 = 49$

11  $4 \times -5 \times 3 = -60$

12  $-8 \times -2 \times 5 = 80$

13  $(-3)(2)(-1)(-6) = -36$

14  $(-2)(-2)(-2)(-2) = 16$

## Dividing Integers

MDI 2

Instructions: Divide these integers.

1  $15 \div -5 = -3$

2  $10 \div -2 = -5$

3  $\frac{-20}{-10} = 2$

4  $\frac{-12}{3} = -4$

5  $-25 \div 5 = -5$

6  $\frac{-16}{-4} = 4$

7  $-36 \div -6 = 6$

8  $\frac{60}{-10} = -6$

9  $\frac{-49}{-7} = 7$

10  $\frac{45}{-9} = -5$

11  $48 \div -6 = -8$

12  $-30 \div -5 = 6$

13  $-56 \div 8 = -7$

14  $\frac{-90}{10} = -9$

15  $\frac{-88}{-11} = 8$

16  $\frac{-50}{-25} = 2$

17  $77 \div -7 = -11$

18  $\frac{-32}{8} = -4$