

Integer Multiplication and Division

First, let's lay out the rule. We count the negative signs in the multiplication or division, then multiply or divide:

- If the number of negative signs is *odd* (1, 3, 5, 7, ...):

- If the number of negative signs is *even* (0, 2, 4, 6, ...):

Let's practice together:

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

- $(-2)(-1)(-3)$
- $(-2)(-3)(-1)(-1)$
- $(-5)(-2)(-1)(2)$

• $10 \div -2$

• $-10 \div -2$

• $-10 \div 2$

• $\frac{-10}{5}$

• $\frac{-10}{-5}$

• $\frac{10}{-5}$

Now, try some on your own:

1. $(-4)(-1)(-2)(-3)(-1)(-1)$

2. $-5 \cdot 2 \cdot -1 \cdot 4 \cdot -1$

3. $\frac{-8}{-2}$

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

5. $\frac{8}{-4}$