

**Topic:** Dividing signed numbers**Question:** Which of these is true?**Answer choices:**

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

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

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

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



**Solution: A**

Dividing a positive number by another positive number, or dividing a negative number by another negative number, will always result in a positive answer. In other words, if the signs are the same, the answer will be positive.

On the other hand, dividing a negative number by a positive number, or dividing a positive number by a negative number, will always result in a negative answer. In other words, if the signs are different, the answer will be negative.

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



**Topic:** Dividing signed numbers**Question:** Simplify the expression.

$$\frac{-10}{5}$$

**Answer choices:**

A      2

B      1

C      5

D      -2



**Solution: D**

Dividing a positive number by another positive number, or dividing a negative number by another negative number, will always result in a positive answer. In other words, if the signs are the same, the answer will be positive.

On the other hand, dividing a negative number by a positive number, or dividing a positive number by a negative number, will always result in a negative answer. In other words, if the signs are different, the answer will be negative.

$$\frac{-10}{5} = -2$$



**Topic:** Dividing signed numbers**Question:** Simplify the expression.

$$\frac{-25}{-5}$$

**Answer choices:**

A      1

B      0

C      -5

D      5



**Solution: D**

Dividing a positive number by another positive number, or dividing a negative number by another negative number, will always result in a positive answer. In other words, if the signs are the same, the answer will be positive.

On the other hand, dividing a negative number by a positive number, or dividing a positive number by a negative number, will always result in a negative answer. In other words, if the signs are different, the answer will be negative.

$$\frac{-25}{-5} = 5$$

