

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

$$-3 \cdot 4$$

Answer choices:

- A 12
- B -12
- C 7
- D -1



Solution: B

Whenever we multiply two numbers where one number is positive and the other is negative, we'll get a negative answer. We know that $3 \cdot 4 = 12$, and since one of our numbers is negative and the other is positive, we know that $-3 \cdot 4 = -12$.



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

A $5 \cdot 2 = 7$

B $-5 \cdot 2 = -10$

C $5 \cdot (-2) = 10$

D $-5 \cdot (-2) = -10$



Solution: B

Multiplying two numbers together that have the same sign will always result in a positive number. Multiplying two numbers together that have different signs will always result in a negative number.

$$-5 \cdot 2 = -10$$

$$-10 = -10$$



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

$$-3 \cdot (-2)$$

Answer choices:

A 5

B -5

C 6

D -6 

Solution: C

Multiplying two numbers that have the same sign will always result in a positive number. Multiplying two numbers that have different signs will always result in a negative number.

$$-3 \cdot (-2) = 6$$

