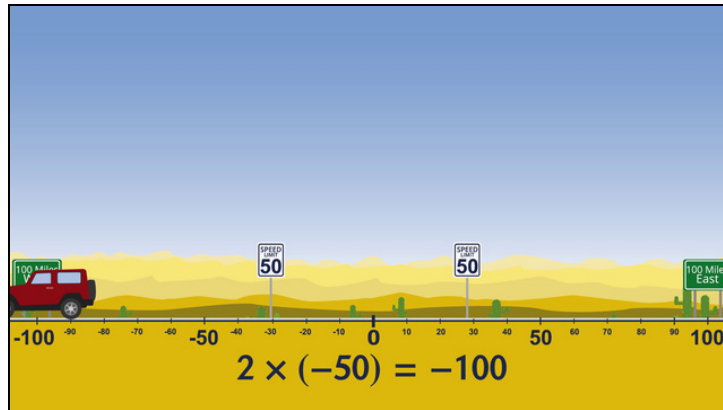




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# Multiplying and Dividing Integers



- 1 Determine the correct sign for the product of the pairs of signs below.
  - 2 Determine the correct distance and direction of the blue car by multiplying integers.
  - 3 Explain how multiplying integers gives you the distance and direction of each car.
  - 4 Calculate the correct distance and direction using multiplication.
  - 5 Calculate the amount of money you have after going to the movies with your friends.
  - 6 Evaluate each of the expressions using multiplication and division.
- + with lots of tips, answer keys, and detailed answer explanations for all of the problems.



The complete package, including all problems, hints, answers, and detailed answer explanations is available for all [sofatutor.com](https://www.sofatutor.com) subscribers.



## Determine the correct sign for the product of the pairs of signs below.

Match the expressions with the correct product.

1	2	3	4
$(-) \times (-)$	$(+) \times (-)$	$(+) \times (+)$	$(-) \times (+)$

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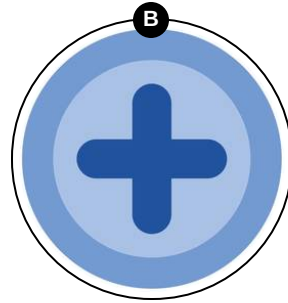
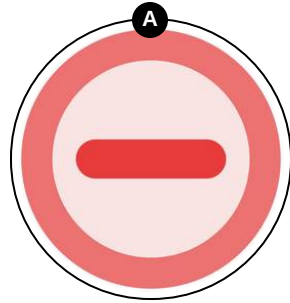
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## Hints for solving these problems

1  
of 6

**Determine the correct sign for the product of the pairs of signs below.**

### Hint #1

See if you can find a pattern:

- $5 \times 1 = 5$
  - $5 \times 0 = 0$
  - $(-5) \times (-1) = (5)$
  - $5 \times (-2) = (-10)$
-



## Answers and detailed answer explanations for these problems

1  
of 6

**Determine the correct sign for the product of the pairs of signs below.**

**Answer key:** A: 2, 4 // B: 1, 3

You should have no problem remembering that a positive times a positive yields a positive answer.

- $(+) \times (+) = (+)$

When multiplying terms, if there is an odd number of negative terms, then the resulting answer will be negative, as in the following two examples:

- $(-) \times (+) = (-)$

- $(+) \times (-) = (-)$

However, when if you are multiplying terms in which an even number of terms is negative, then the resulting answer will be positive, like in the example below:

- $(-) \times (-) = (+)$