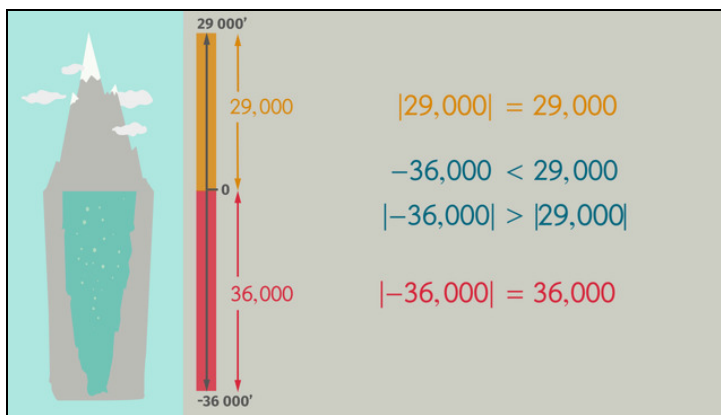




Printable Worksheets from [sofatutor.com](https://www.sofatutor.com)

Introduction to Absolute Value



- 1 **Decide which is further from sea level.**
- 2 Describe absolute value.
- 3 Determine the absolute value of the numbers.
- 4 Determine the winner of the absolute value game.
- 5 Decide which terms have the same absolute value.
- 6 Find the absolute values.
- + with lots of tips, answer keys, and detailed answer explanations for all of the problems.

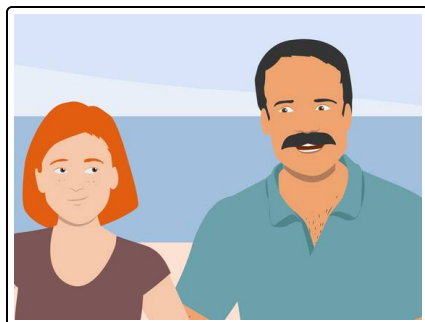


The complete package, including all problems, hints, answers, and detailed **answer explanations** is available for all [sofatutor.com](https://www.sofatutor.com) subscribers.



Decide which is further from sea level.

Choose the correct statements.



Lara and Philip have to decide where to go for their next holiday: Mount Everest or the Mariana Trench.

They know they want to spend their holidays as far away from sea level as possible.

- To the peak of Mount Everest, it's about 29000 feet and
- to the deepest point of the Mariana Trench, it's about -36000 feet.

☐

The deepest point of the Mariana Trench is further away from sea level than the peak of Mount Everest.

A

☐

Because $-36000 < 29000$, the peak of Mount Everest is further away from sea level than the deepest point of the Mariana Trench.

B

☐

To determine the distance from sea level we have to look at the absolute values:

- $|29000| = 29000$ and
- $|-36000| = 36000$.

C

☐

We can conclude that the deepest point of the Mariana Trench is further away from sea level than the peak of Mount Everest.

D

☐

There are numbers that have a negative absolute value.

E

☐

Absolute values are always positive numbers (or zero).

F



Hints for solving these problems

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of 6

Decide which is further from sea level.

Hint #1

For example $|-3| = 3$ as well as $|3| = 3$.

Hint #2

The absolute value on a number line is the distance of any number to the zero point.

Hint #3

Look at the following example:

- $-6 < 4$, but
 - $|-6| = 6 > 4$.
-



Answers and detailed answer explanations for these problems

1
of 6

Decide which is further from sea level.

Answer key: A, C, D, F

Let's have a look at the information we're given:

- From sea level, it's about 29000 feet to the peak of Mount Everest and
- about -36000 feet to the deepest point of the Mariana Trench.

To decide which is further away from sea level, we have to take a look at the absolute values:

- $|29000| = 29000$ and
- $|-36000| = 36000$.

Keep in mind that absolute values are always positive numbers.

$$36000 > 29000.$$

So that's the decision: They will go to the Mariana Trench.