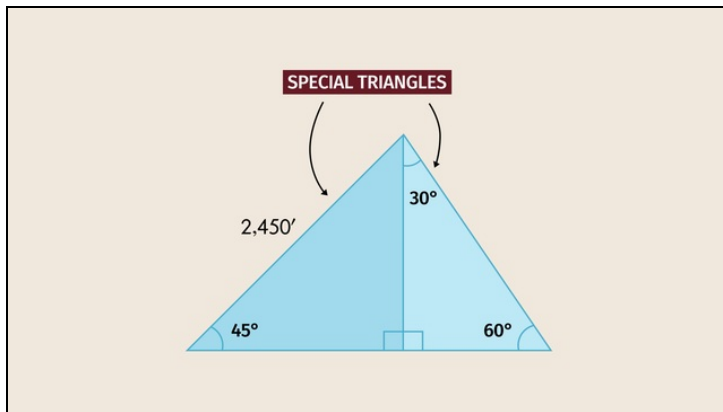




Printable Worksheets from [sofatutor.com](https://www.sofatutor.com)

Special Triangles



- 1 State what a triangle with two 45° angles is called and what is special about it.
- 2 Solve for the height and distance travelled on land of the plane.
- 3 Calculate the distance Grandpa Lindbergh's plane will fall.
- 4 Determine the length of the missing side.
- 5 Find the distance Grandpa Lindbergh has to fly to get to a height of 1500 feet.
- 6 Calculate the length of the wooden slats needed to build the kite.
- + with lots of tips, answer keys, and detailed answer explanations for all of the problems.

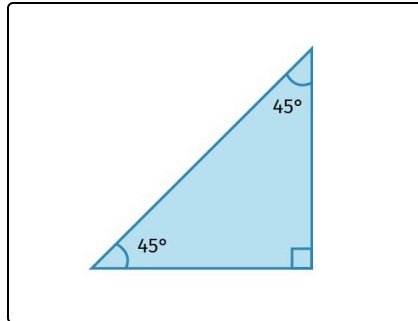


The complete package, including all problems, hints, answers, and detailed answer explanations is available for all [sofatutor.com](https://www.sofatutor.com) subscribers.



State what a triangle with two 45° angles is called and what is special about it.

Choose the correct statements.



A
equilateral right triangle

B
equilateral triangle

C
three sides of equal length

D
iscocoles right triangle

E
two sides of equal length



Hints for solving these problems

1
of 6

State what a triangle with two 45° angles is called and what is special about it.

Hint #1

All angles of an equilateral triangle are equal.

Hint #2

The sum of all the angles of any triangle is always 180° .

Hint #3

The opposite legs of equal angles have equal lengths.

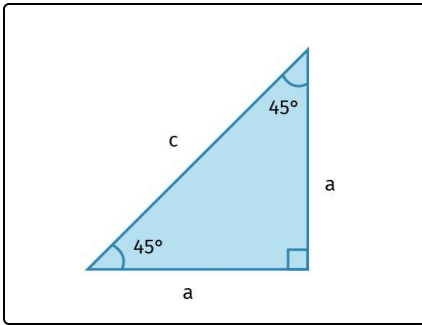


Answers and detailed answer explanations for these problems

1
of 6

State what a triangle with two 45° angles is called and what is special about it.

Answer key: D, E



Any triangle with two 45° angles is an isosceles right triangle.

We can see this in the following way:

- The sum of the three angles of any triangle is always 180° .
- Thus, if two angles are 45° , the last angle must be $180^\circ - (45^\circ + 45^\circ) = 90^\circ$
- Also, the triangle legs opposite to the 45° angles have equal lengths.