Inspiring Greatness

ISD

INDEPENDENCE SCHOOL DISTRICT

Math Virtual Learning

Geometry

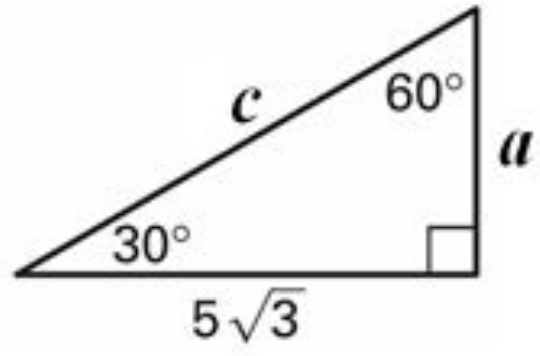
April 10, 2020

Geometry
Lesson: April 10, 2020

Objective/Learning Target:
Students will solve problems using special right triangles.

Bell Ringer:

Find the missing sides.



Bell Ringer Answer: a = 5 , c = 10

Let's Get Started:

Watch Video: Solving Special Right Triangles

After you complete video, move on to the practice problems provided.

Practice: Try the following problems shown below. Then, use the provided answer key to check your work.

1) The diagonal of a square is 14 units, find the length of each side of the square.

2) The diagonal of a square is $10\sqrt{2}$ units, find the perimeter of the square.

3) At a point 500 miles north of a ship, the shoreline runs east and west. East of that point, the navigator sights a lighthouse at a 60 degree angle. How far is the ship from the lighthouse?

4) A ladder leaning against a wall makes a 60 angle with the ground. The base of the ladder is 3ft from the building. How high above the ground is the top of the ladder?

Answer Key:

Here you will find the answers to the previous four questions.
Check your answers below.

1) $7\sqrt{2}$ units

2) Perimeter = 10 units

3) $500\sqrt{3}$ miles or approximately 866.03 miles

4) $3\sqrt{3}$ ft or approximately 5.20 ft

Additional Resources:

Click on the link below to get additional practice and to check your understanding!

Special Right Triangles Extra Practice and Explanation