

Pythagorean Theorem, Special Right Triangles or Trig?

Content Standard:

- Use the Pythagorean Theorem and its converse.
- Identify the ratio of side lengths in a 30° - 60° - 90° triangle and a 45° - 45° - 90° triangle.
- Use trigonometry ratios to find side lengths and angle measures of right triangles.

Process Standards:

- Collaborate with partners/small groups.

Task:

Students will work with a partner on several problems involving triangles. Students will be given a worksheet in which they have to find missing side lengths or angle measures of a triangle. They will have to decide which method they must use to solve the problem - Pythagorean Theorem, Special Right Triangles, or Trig. Once they decide, they will have to write a sentence explaining why they chose that method. Then, they need to find the missing measurement.

Criteria:

- Students choose the correct method to solve the problem.
- Students can explain why the method is correct.
- Students find the missing measurement correctly.

Rubric

Criteria	Poor - 0	Good - 1
Method chosen	Did not choose correct method	Chose correct method
Explanation of chosen method	Explanation was not correct	Thorough explanation of the correct method
Solution	Solution is incorrect	Solution is correct.

There will be 6 problems and this rubric will be used for each problem.

Total _____/18