

TELMOOC. Technology Enabled Learning week-4 Assignment.

TEL Activity Plan

Name: *Md. Belal Uddin Ahammed*

Grade/Course: *Grade 9, Mathematics.*

Length of Activity: *50 minutes.*

Lesson Summary:

Students will learn the concept of Pythagoras Theorem and how it is applied to calculate the hypotenuse and any missing side of a right-angled triangle.

Lesson Objective:

To provide students with an opportunity to discover how the Pythagorean Formula is used to find the length of the hypotenuse or the any missing side of a right angle triangle.

Resources/Technology – Teacher:

- Computer/laptop
- Projector
- Ruler
- White board
- White Board Markers

Online Resources:

- <https://en.wikipedia.org/wiki/Pythagoras>
- <https://www.teachingchannel.org/videos/teaching-pythagorean-theorem>
- <http://study.com/academy/popular/pythagorean-theorem-lesson-plan.html>

Resources/Technology – Students:

- Computers/Laptop setting
- Worksheet/learning materials
- Calculators

Online Resources:

- <http://www.mathsisfun.com/pythagoras.html>
- <http://oercommons.org/authoring/7615-pythagoras-theorem-Student-made.powerpoint-templa/view>
- <https://eu.ixl.com/math/grade-9/pythagoras-theorem>
- http://www.funmaths.com/worksheets/downloads/view.htm?ws0036_1.gif
- <https://www.youtube.com/watch?v=JH9V3bWA1T0>

Intended Curriculum Learning Outcomes:

- Student will learn that Pythagoras Theorem states that if a triangle is right angled, the square of the measure of length of the hypotenuse equals the sum of the square of the lengths of the other two sides i.e. $c^2 = a^2 + b^2$.
- Students will differentiate between the hypotenuse and the sides of a right triangle.

- Students will use the Pythagoras Theorem to find the third side length of a right triangle given the other two side lengths.
- Students will apply the concept of Pythagoras Theorem in real life situations.

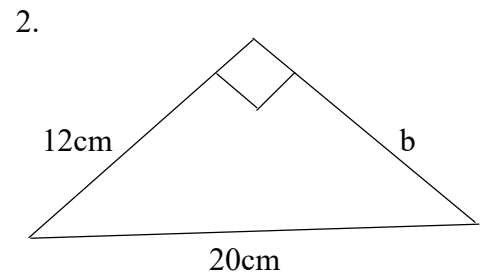
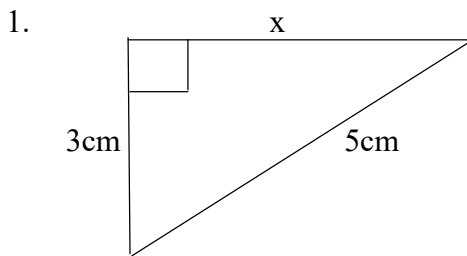
Instructional Activities:

- Teacher will explain to the whole class the Pythagoras Theorem and how it is applied to find the length of any missing side given the two sides. (5 minutes)
- Teacher will show the students how to calculate the length of the hypotenuse in the right triangle and that of the sides on the white board and by PowerPoint presentation. (15 minutes)
- Students are given time to complete a class activity regarding finding the values of sides indicated by letters in right triangles using Pythagoras theorem. (15 minutes)

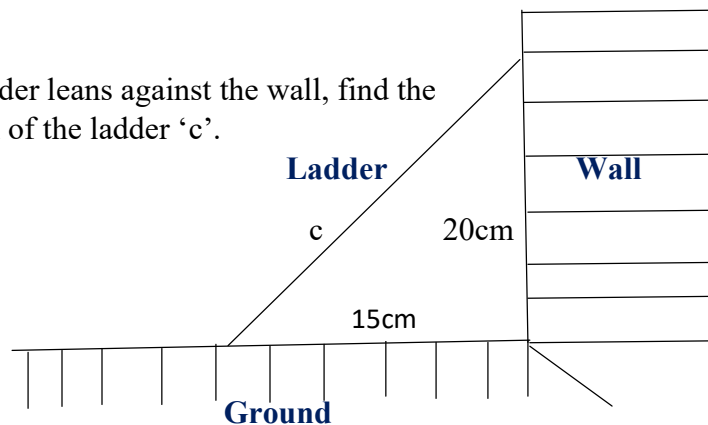
Learner Assessment:

Students will solve correctly related problems such as:

Find the value of side indicated by letters using Pythagoras Theorem.



3. The ladder leans against the wall, find the Length of the ladder 'c'.



Model Answers:

1. $x = 4\text{cm}$ 2. $b = 16\text{cm}$ 3. $c = 25\text{cm}$