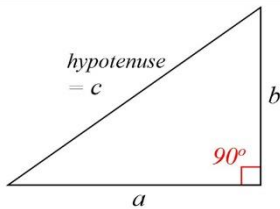


Goals

This week and next week we are going to:

- Apply and use Pythagoras' theorem to solve problems involving the length of the hypotenuse or one of the shorter sides
- Learn how to name the sides of a right-angled triangle in relation to an identified angle
- Apply the tangent ratio to find unknown angles and sides in right-angled triangles
- Apply the cosine and sine ratios to find unknown angles and sides in right-angled triangles
- Work with concepts of angle of elevation and depression



$$c^2 = a^2 + b^2$$

Theoretical Components

Resources:

PDF file: Week 11 and 12 Notes and Exercises

Here is a link for finding the short side in a right-angled triangle:

https://www.youtube.com/watch?app=desktop&v=izOnU4dCy_0

Here is a link for finding the angle in a right-angled triangle:

<https://www.youtube.com/watch?app=desktop&v=LelolWAuCEQ>

Knowledge Checklist:

- Naming the sides of a triangle
- Pythagoras' Theorem
- Applications of Pythagoras' theorem
- Finding the length of the hypotenuse
- Finding the length of a shorter side
- Investigating the tangent ratio
- Find unknown angles and sides using tan ratio
- Angles of elevation and depression

Order:

1. Work through the Week 11 and 12 notes and exercises
2. Complete the Portfolio task
3. Complete the reflection at the end of the booklet
4. Show your teacher your completed booklet.

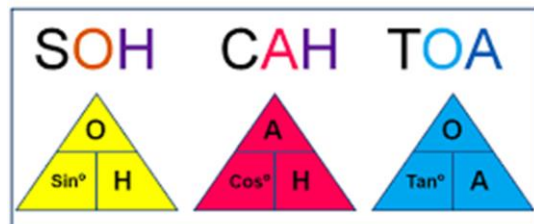
Practical Components

Work through the exercises and show the complete tasks to your teacher.

Be sure to ask for help as you need for the successful completion of all tasks.

SOH – CAH – TOA Pyramids

Cover the letter which is the unknown value, and then Multiply for horizontal relationships and Divide for vertical relationships



Portfolio Task

See the last page of the booklet

Other