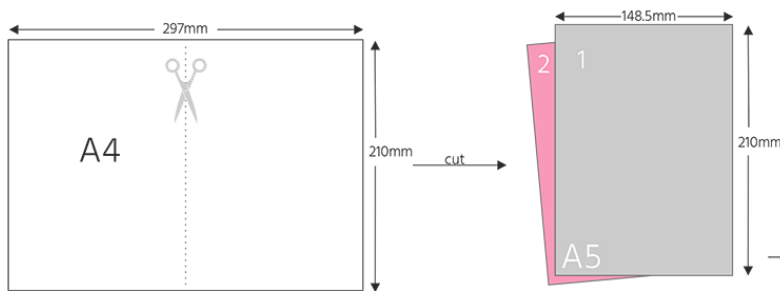
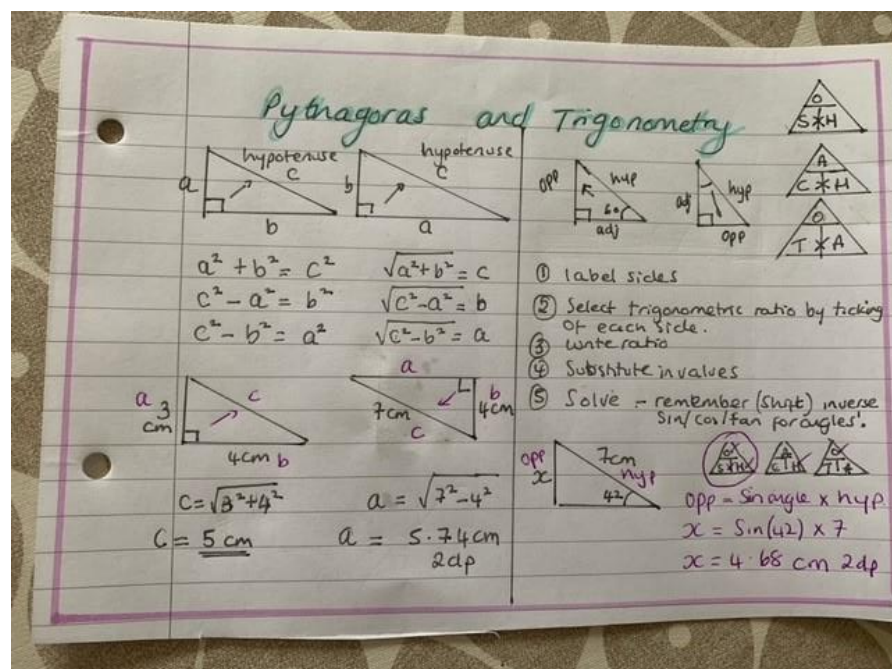


Subject: Mathematics Higher & Foundation

Task 1 A5 revision notes task

For this task you will need some A4 paper plain or coloured, which you fold in half widthways to make an A5 sheet. You can then cut along the fold line to make an A5 sheet (see below).

Now you will need to fill one side of the A5 sheet with notes about a topic that you are not sure about. The example shown below is for Pythagoras and trigonometry and has included worked examples to help me to remember! You can make yours stand out by adding diagrams and colour as this will help you remember key information

Pythagoras and Trigonometry

Pythagoras:

- $a^2 + b^2 = c^2$
- $c^2 - a^2 = b^2$
- $c^2 - b^2 = a^2$
- $\sqrt{a^2 + b^2} = c$
- $\sqrt{c^2 - a^2} = b$
- $\sqrt{c^2 - b^2} = a$

Trigonometry:

SOH CAH TOA

① label sides
 ② Select trigonometric ratio by ticking of each side.
 ③ write ratio
 ④ Substitute in values
 ⑤ Solve - remember (Sinh) inverse Sin/cos/tan for angles!

Worked Example:

Given a right-angled triangle with side $a = 3$ cm, side $b = 4$ cm, and hypotenuse c .

$c = \sqrt{3^2 + 4^2}$
 $c = \underline{5 \text{ cm}}$

Given a right-angled triangle with hypotenuse $c = 7$ cm, side $b = 4$ cm, and angle x opposite side a .

$a = \sqrt{7^2 - 4^2}$
 $a = 5.74 \text{ cm}$
 2dp

$\text{opp} = \sin(\text{angle}) \times \text{hyp}$
 $x = \sin(42) \times 7$
 $x = 4.68 \text{ cm}$ 2dp