

## ROK (Retention of Knowledge) – Card Sort

Decide whether you need to use SOH, CAH or TOA for the stack of cards.

Place the letter of the cards into the correct box.

SOH

CAH

TOA

## Literacy

Work in pairs and create your own mnemonic to help you remember SOHCAHTOA.

E.g. Sense Of Humour Can Always Help To

Overcome Awkwardness.

S \_\_\_\_\_ O \_\_\_\_\_ H \_\_\_\_\_ C \_\_\_\_\_

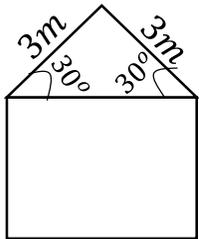
A \_\_\_\_\_ H \_\_\_\_\_ T \_\_\_\_\_

O \_\_\_\_\_ A \_\_\_\_\_

## Stretch 1

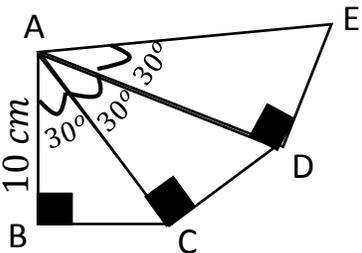
Grade A

A shed roof has sloping sides at an angle of  $30^\circ$ . Each edge is 3m long, calculate, f, the width of the shed.



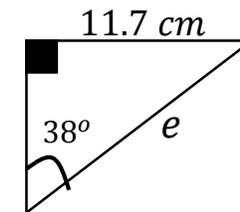
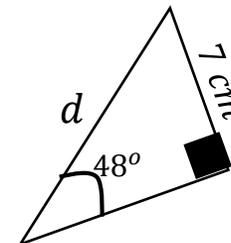
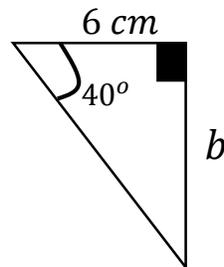
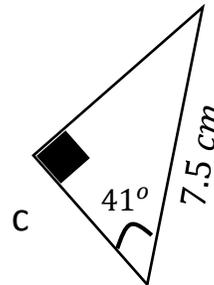
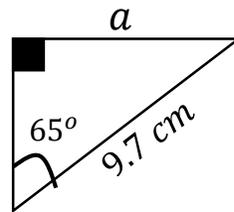
f

ABCDE is a pentagon made up of three similar right-angled triangles. AB = 10 cm. Calculate AE.



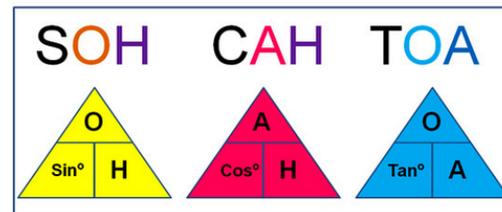
## Skill 1

Find the missing lengths of these triangles



## Memory

Use the trigonometry triangles to help establish which formula you need to use.



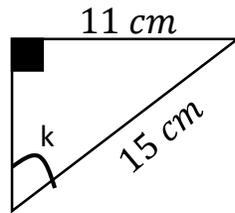
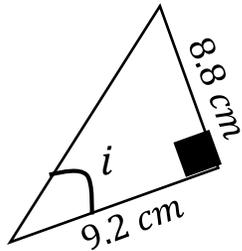
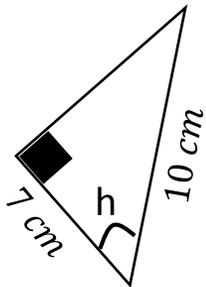
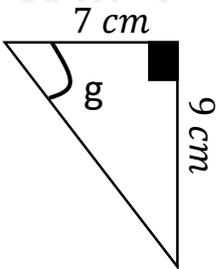
Grade B

RAG

## Skill 2

Find the size of the missing angles.

Grade B



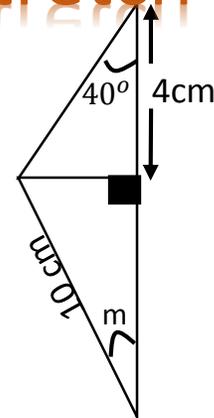
## Stretch 2

Application of knowledge

Grade A



Find the missing angle marked  $m$ .



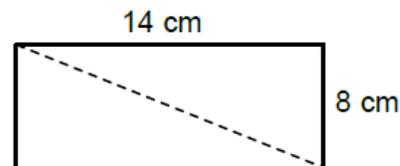
A ladder 5m long rests against a wall.  
The foot of the ladder is 2.2m from the base of the wall.

Draw a diagram of this.

What angle does the ladder make with the wall? (Give your answer to 1 decimal place)



A rectangle has a length of 14cm and width of 8cm. What angle does the diagonal make with the longest side?



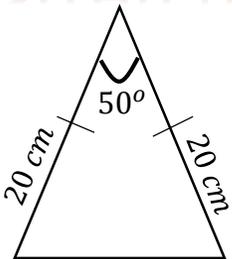
## Stretch 3

Subject Knowledge Cross Over

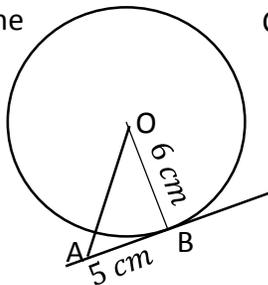
Grade A



By first finding its perpendicular height, calculate the area of the isosceles triangle.



Calculate the size of the angle AOB.



A ship sails 40km on a bearing of  $055^\circ$ . how far north has it travelled?

