E6.2 2D Pythagoras & Trigonometry (SOHCAHTOA)

Question Paper

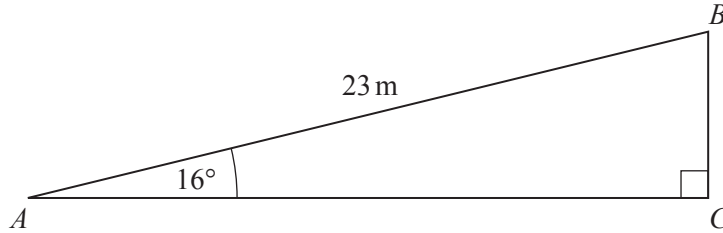| Level	IGCSE
Subject	Maths (0580)
Exam Board	Cambridge International Examinations (CIE)
Level	Core
Topic	E6. Trigonometry
Sub-Topic	E6.2 2D Pythagoras & Trigonometry (SOHCAHTOA)
Booklet	Question Paper

Time Allowed: 7 minutes

Score: /6

Percentage: /100

Grade Boundaries:

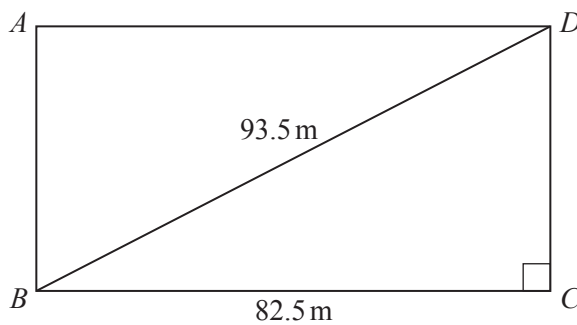| A*	A	B	C	D	E	U
>85%	75%	60%	45%	35%	25%	<25%

1

B

23 m

NOT TO
SCALE

16°

A

C

A ramp, *AB*, with length 23 m, slopes up at an angle of 16° to the horizontal, *AC*.

Use trigonometry to calculate *AC*.

AC = ... m [2]

2

A

D

93.5 m

NOT TO
SCALE

B

82.5 m

C

The diagram shows a rectangular field, *ABCD*, with a straight path, *BD*.

(a) Calculate the distance from *C* to *D*.

.... m [3]

(b) Yan walks along the edge of the field from *B* to *C* and then from *C* to *D*.
Lee walks along the straight path *BD*.

Work out how much further Yan walks than Lee.

.... m [1]