10 *ABD* and *ABC* are right-angled triangles.

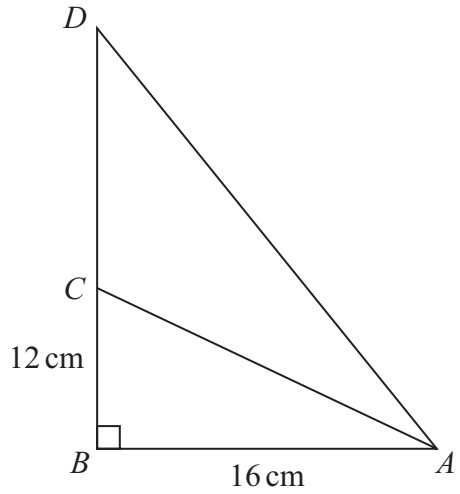


Diagram **NOT** accurately drawn

$AB = 16\,\text{cm}$ $BC = 12\,\text{cm}$ $AD = 1.5 \times AC$

Find the length of *CD*
Give your answer correct to 3 significant figures.

..... cm

(Total for Question 10 is 5 marks)

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