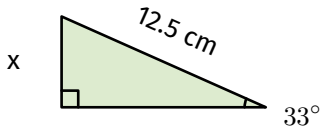


Build Tasks

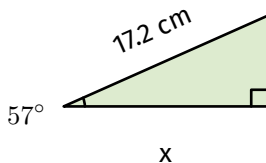


Use SOH CAH TOA to find the missing side, labelled x . Give each answer to 2 decimal places.

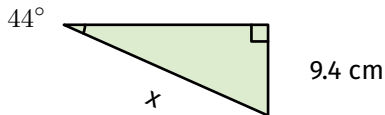
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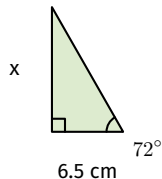
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3.



4.

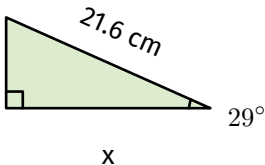


Build Tasks

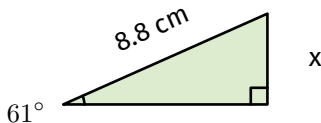


Use SOH CAH TOA to find the missing side, labelled x . Give each answer to 2 decimal places.

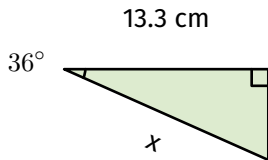
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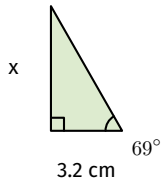
6.



7.



8.



Build Tasks



Use SOH CAH TOA to answer each question. Give each answer to 2 decimal places.

9. A wheelchair ramp rises at an angle of 6° to reach a doorway 0.9 m above the ground. Find the length of the ramp.

10. A guy-wire is attached to the top of a 25 m mast and meets the ground at an angle of 63° to the horizontal. Find the length of the guy-wire.

11. A surveyor measures the angle to the top of a cliff as 34° from a point 120 m from its base. Find the height of the cliff.

12. A skateboarder rides up a ramp inclined at 19° , covering a slope length of 8.4 m. Find the horizontal distance covered.

Build Tasks



Use SOH CAH TOA to answer each question. Give each answer to 2 decimal places.

13. A bird flies from its nest, climbing at a constant angle of 22° above the horizontal ground. If the horizontal distance covered is 60 m, find how far the bird has flown.

15. From the top of a 42 m lighthouse, the angle of elevation from a boat to the top of the lighthouse is 12° . Find how far the boat is from the base of the lighthouse.

14. A zip-line cable is fixed between two platforms. The lower platform is 18 m, measured horizontally, from the base of the upper platform, and the cable makes an angle of 31° with the horizontal.

16. A drone climbs at an angle of 25° from its launch point, directly above a bench 45 m, measured horizontally, from the launch point. Find the height of the drone above the ground.