Year 9 Angles and Pythagoras – Foundation

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Year 9 · Maths · Angles, Polygons and Pythagoras' Theorem · Level 1 Foundation · 10 questions

Name _____ **Date** _____

A. Polygon and Pythagoras skills

1. Find the sum of the interior angles of a decagon.

Answer _____

2. Find the sum of the interior angles of an 18-sided polygon.

Answer _____

3. Find the size of each exterior angle of a regular dodecagon.

Answer _____

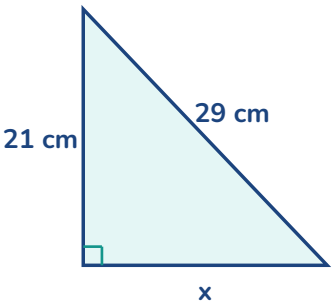
4. Find the size of each interior angle of a regular 24-sided polygon.

Answer _____

5. The exterior angles of a hexagon are 50°, 81°, 50°, 88°, 52° and y. Find y.

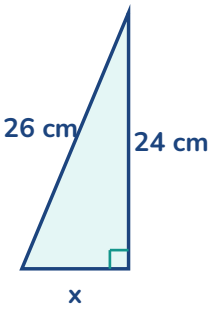
Answer _____

6. Find the length of the side marked x.



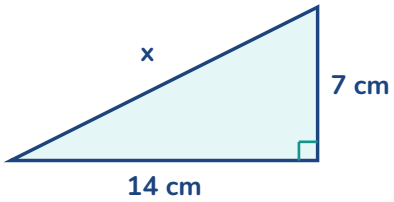
Answer _____

7. Find the length of the side marked x.



Answer _____

8. Find the length of the side marked x. Give your answer to 1 decimal place.



Answer _____

9. The interior angles of a polygon add up to 2160°. How many sides does it have?

Answer _____

10. A pentagon has interior angles 96°, 152°, 103°, 113° and x. Find x.

Answer _____