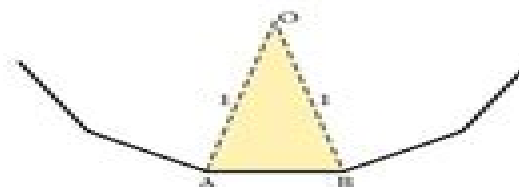**30.** Hexagonal tiles of side 20 cm are used to tile a room which measures 6.25 m by 4.85 m. Assuming we complete the edges by cutting up tiles, how many tiles are needed?

31. Find the area of a regular pentagon of side 8 cm.

32. The diagram shows a part of the perimeter of a regular polygon with n sides

The centre of the polygon is at O and OA = OB = 1 unit.

a) What is the angle AOB in terms of n?

b) Work out an expression in terms of n for the area of the polygon.

c) Find the area of polygons where $n = 6$, 10, 300, 1000, 10 000. What do you notice?

33. The area of a regular pentagon is 600 cm². Calculate the length of one side of the pentagon.

3.2 The circle

For any circle, the ratio $\left(\dfrac{\text{circumference}}{\text{diameter}}\right)$ is equal to π.

The value of π is usually taken to be 3.14, but this is not an exact value. Through the centuries, mathematicians have been trying to obtain a better value for π.

For example, in the third century A.D., the Chinese mathematician Liu Hui obtained the value 3.14159 by considering a regular polygon having 3072 sides! Ludolph van Ceulen (1540–1610) worked even harder to produce a value correct to 35 significant figures. He was so proud of his work that he had this value of π engraved on his tombstone.

Electronic computers are now able to calculate the value of π to many thousands of figures, but its value is still not exact. It was shown in 1761 that π is an *irrational number* which, like $\sqrt{2}$ or $\sqrt{3}$ cannot be expressed exactly as a fraction.

The first fifteen significant figures of π can be remembered from the number of letters in each word of the following sentence.

How I need a drink, cherryade of course, after the silly lectures involving Italian kangaroos.

There remain a lot of unanswered questions concerning π, and many mathematicians today are still working on them.

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Table of Contents Maths Igcse Past Papers Xtremepapers

1. Understanding the eBook Maths Igcse Past Papers Xtremepapers
    - The Rise of Digital Reading Maths Igcse Past Papers Xtremepapers
    - Advantages of eBooks Over Traditional Books
2. Identifying Maths Igcse Past Papers Xtremepapers
    - Exploring Different Genres
    - Considering Fiction vs. Non-Fiction
    - Determining Your Reading Goals
3. Choosing the Right eBook Platform
    - Popular eBook Platforms
    - Features to Look for in an Maths Igcse Past Papers Xtremepapers
    - User-Friendly Interface
4. Exploring eBook Recommendations from Maths Igcse Past Papers Xtremepapers
    - Personalized Recommendations
    - Maths Igcse Past Papers Xtremepapers User Reviews and Ratings
    - Maths Igcse Past Papers Xtremepapers and Bestseller Lists
5. Accessing Maths Igcse Past Papers Xtremepapers Free and Paid eBooks
    - Maths Igcse Past Papers Xtremepapers Public Domain eBooks
    - Maths Igcse Past Papers Xtremepapers eBook Subscription Services
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