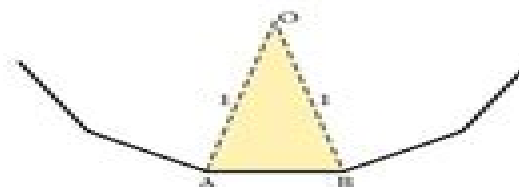


30. Hexagonal tiles of side 20 cm are used to tile a room which measures 6.25 m by 4.85 m. Assuming we complete the edges by cutting up tiles, how many tiles are needed?
31. Find the area of a regular pentagon of side 8 cm.
32. The diagram shows a part of the perimeter of a regular polygon with  $n$  sides. The centre of the polygon is at O and  $OA = OB = 1$  unit.
- What is the angle AOB in terms of  $n$ ?
  - Work out an expression in terms of  $n$  for the area of the polygon.
  - 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  $600\text{ cm}^2$ . Calculate the length of one side of the pentagon.



## 3.2 The circle

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

The value of  $\pi$  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  $\pi$ .

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  $\pi$  engraved on his tombstone.

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

The first fifteen significant figures of  $\pi$  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  $\pi$ , and many mathematicians today are still working on them.

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