

IGCSE MATHS

0580/22

PAPER 2

October November-22

Full Solution

Cambridge IGCSE™

Centre Number:
Candidate Number:

MATHEMATICS 0580/22
Paper 2 (Extended) **50 MARKS**
Candidates must answer all questions.
Time allowed: 1 hour 45 minutes

Solved

- INSTRUCTIONS**
- Answer all questions.
 - Use a ruler to mark lines only. Do not use an eraser or any other means of altering or erasing your work.
 - Write your name, centre number and candidate number in the boxes at the top of the page.
 - Write your answers to each question in the spaces provided.
 - Do not use an erasable pen or correction fluid.
 - Do not write on any bar codes.
 - You should use a calculator where appropriate.

1. The diagram shows a circle with centre O and a chord AB . The angle AOB is 100° . The angle ACB is x° .

Solution: The angle subtended by a chord at the centre is twice the angle subtended at any point on the circumference. $\therefore 100 = 2x$
 $x = 50$
The angle ACB is 50° .

2. The diagram shows a circle with centre O and a chord AB . The angle AOB is 100° . The angle ACB is x° .

Solution: The angle subtended by a chord at the centre is twice the angle subtended at any point on the circumference. $\therefore 100 = 2x$
 $x = 50$
The angle ACB is 50° .

3. The diagram shows a circle with centre O and a chord AB . The angle AOB is 100° . The angle ACB is x° .

Solution: The angle subtended by a chord at the centre is twice the angle subtended at any point on the circumference. $\therefore 100 = 2x$
 $x = 50$
The angle ACB is 50° .

4. The table shows the number of students who took part in a sports competition.

Activity	Number of students
Swimming	12
Table Tennis	8
Badminton	10
Table Tennis	8
Swimming	12

Solution: The number of students who took part in the sports competition is $12 + 8 + 10 + 8 + 12 = 50$.

5. The diagram shows a circle with centre O and a chord AB . The angle AOB is 100° . The angle ACB is x° .

Solution: The angle subtended by a chord at the centre is twice the angle subtended at any point on the circumference. $\therefore 100 = 2x$
 $x = 50$
The angle ACB is 50° .

Math 0580 22

F Rizvi



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