

IGCSE MATHS

0580/22

PAPER 2

October November-22

Full Solution

Cambridge IGCSE™

Candidate
name

Candidate
number

Candidate
number

MATHEMATICS

Paper 2 (Extended)

0580/22

October/November 2022

1 hour 30 minutes

You must answer on the question paper.

For help, read: General Instructions

Solved

INSTRUCTIONS

- Answer all questions.
- Use a pencil in both hand parts. You may use an HB pencil for any diagrams or graphs.
- 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.
- Any drawing use a ruler and compass where appropriate.

1. Solve the simultaneous equations by the method of elimination, giving a full algebraic solution.

(i) $2x + 3y = 12$ (ii) $x - 2y = 5$

2. The diagram shows the cross-section of a bridge. The bridge is supported by two pillars. The distance between the pillars is 100 m. The height of the bridge is 20 m. The distance from the left pillar to the point where the bridge crosses the river is 30 m. The distance from the right pillar to the point where the bridge crosses the river is 70 m. The distance from the left pillar to the point where the bridge crosses the river is 30 m. The distance from the right pillar to the point where the bridge crosses the river is 70 m.

3. The diagram shows a circle with centre O. A chord AB is drawn. A tangent line is drawn from a point P outside the circle to the circle at point Q. The line segment PQ is perpendicular to the radius OQ. The angle POQ is 60°. The angle AOB is 120°. The angle AQB is 90°.

4. The table shows the number of books sold by a school library in the first three months of the year.

Month	Books sold
January	120
February	150
March	180

5. The diagram shows a circle with centre O. A chord AB is drawn. A tangent line is drawn from a point P outside the circle to the circle at point Q. The line segment PQ is perpendicular to the radius OQ. The angle POQ is 60°. The angle AOB is 120°. The angle AQB is 90°.

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