

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 45 minutes

You must answer on the question paper.

For help, read: General Instructions

Solved

INSTRUCTIONS

- Answer all questions.
- Use a pencil in this test paper. 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.
- You should use a calculator where appropriate.

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

17a.
$$\begin{aligned} 2x + 3y &= 12 \quad \text{--- (1)} \\ 3x + 2y &= 10 \quad \text{--- (2)} \end{aligned}$$

17b.
$$\begin{aligned} 2x + 3y &= 12 \quad \text{--- (1)} \\ 3x + 2y &= 10 \quad \text{--- (2)} \end{aligned}$$

17c.
$$\begin{aligned} 2x + 3y &= 12 \quad \text{--- (1)} \\ 3x + 2y &= 10 \quad \text{--- (2)} \end{aligned}$$

18. Express $\frac{1}{x^2 - 4}$ as the sum of two partial fractions.

18a.
$$\frac{1}{x^2 - 4} = \frac{A}{x - 2} + \frac{B}{x + 2}$$

19. The diagram shows three triangles, A, B and C.



20. Express $\frac{1}{x^2 - 4}$ as the sum of two partial fractions.

20a.
$$\frac{1}{x^2 - 4} = \frac{A}{x - 2} + \frac{B}{x + 2}$$

20b.
$$\frac{1}{x^2 - 4} = \frac{A}{x - 2} + \frac{B}{x + 2}$$

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

Age group	10-14	15-19	20-24	25-29	30-34
Boys	12	18	25	30	20
Girls	10	15	22	28	18

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

22a.
$$\begin{aligned} 2x + 3y &= 12 \quad \text{--- (1)} \\ 3x + 2y &= 10 \quad \text{--- (2)} \end{aligned}$$

22b.
$$\begin{aligned} 2x + 3y &= 12 \quad \text{--- (1)} \\ 3x + 2y &= 10 \quad \text{--- (2)} \end{aligned}$$

22c.
$$\begin{aligned} 2x + 3y &= 12 \quad \text{--- (1)} \\ 3x + 2y &= 10 \quad \text{--- (2)} \end{aligned}$$

22d.
$$\begin{aligned} 2x + 3y &= 12 \quad \text{--- (1)} \\ 3x + 2y &= 10 \quad \text{--- (2)} \end{aligned}$$

22e.
$$\begin{aligned} 2x + 3y &= 12 \quad \text{--- (1)} \\ 3x + 2y &= 10 \quad \text{--- (2)} \end{aligned}$$

22f.
$$\begin{aligned} 2x + 3y &= 12 \quad \text{--- (1)} \\ 3x + 2y &= 10 \quad \text{--- (2)} \end{aligned}$$

22g.
$$\begin{aligned} 2x + 3y &= 12 \quad \text{--- (1)} \\ 3x + 2y &= 10 \quad \text{--- (2)} \end{aligned}$$

22h.
$$\begin{aligned} 2x + 3y &= 12 \quad \text{--- (1)} \\ 3x + 2y &= 10 \quad \text{--- (2)} \end{aligned}$$

22i.
$$\begin{aligned} 2x + 3y &= 12 \quad \text{--- (1)} \\ 3x + 2y &= 10 \quad \text{--- (2)} \end{aligned}$$

22j.
$$\begin{aligned} 2x + 3y &= 12 \quad \text{--- (1)} \\ 3x + 2y &= 10 \quad \text{--- (2)} \end{aligned}$$

22k.
$$\begin{aligned} 2x + 3y &= 12 \quad \text{--- (1)} \\ 3x + 2y &= 10 \quad \text{--- (2)} \end{aligned}$$

22l.
$$\begin{aligned} 2x + 3y &= 12 \quad \text{--- (1)} \\ 3x + 2y &= 10 \quad \text{--- (2)} \end{aligned}$$

22m.
$$\begin{aligned} 2x + 3y &= 12 \quad \text{--- (1)} \\ 3x + 2y &= 10 \quad \text{--- (2)} \end{aligned}$$

22n.
$$\begin{aligned} 2x + 3y &= 12 \quad \text{--- (1)} \\ 3x + 2y &= 10 \quad \text{--- (2)} \end{aligned}$$

22o.
$$\begin{aligned} 2x + 3y &= 12 \quad \text{--- (1)} \\ 3x + 2y &= 10 \quad \text{--- (2)} \end{aligned}$$

Paper 22 October November 2013

B Lingard



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