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Surname

Other names

Edexcel/AQA
Level 1/Level 2 GCSE (9 - 1)

Centre Number

Candidate Number

Quadratic inequalities
Non-Calculator

Higher Tier

Assessment Materials – Issue

Time: n/a

Paper Reference
1MA1/1H

You must have: Ruler graduated in centimetres and millimetres, protractor, pair of compasses, pen, HB pencil, eraser.

Total Marks

Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **all** questions.
- Answer the questions in the spaces provided
- – *there may be more space than you need*.
  Calculators may not be used.
- Diagrams are **NOT** accurately drawn, unless otherwise indicated.
- You must **show all your working out**.

Information

- The total mark for this paper is 80
- The marks for **each** question are shown in brackets
  – *use this as a guide as to how much time to spend on each question.*

Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end.

S48572A

Turn over

S48572A0120

PEARSON

Answer ALL questions.

Write your answers in the spaces provided.

You must write down all the stages in your working.

1. Find the values which satisfy the inequality:

$$x^2 + 5x + 6 > 0$$

....

(Total for Question is 4 marks)

2. Find the values which satisfy the inequality:

$$x^2 + 7x + 12 < 0$$

....

(Total for Question is 4 marks)

3. Find the values which satisfy the inequality:

$$y^2 - 2y - 35 < 0$$

....
(Total for Question is 4 marks)

4. Find the values which satisfy the inequality:

$$m^2 + 5m - 36 > 0$$

....
(Total for Question is 4 marks)

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5. Find the values which satisfy the inequality:

$$x^2 - 6x - 40 \geq 0$$

....
(Total for Question is 4 marks)

6. Find the values which satisfy the inequality:

$$k^2 - 3k - 10 \leq 0$$

....
(Total for Question is 4 marks)

7. Find the values which satisfy the inequality:

$$6x^2 + 13x - 28 \leq 0$$

....
(Total for Question is 4 marks)

8. Find the values which satisfy the inequality:

$$5k^2 + 12k - 9 \geq 0$$

....
(Total for Question is 4 marks)