Name:

# GCSE (1-9) <br> <br> Quadratic Inequalities 

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## Instructions

- Use black ink or ball-point pen.
- Answer all questions.
- Answer the questions in the spaces provided
- there may be more space than you need.
- Diagrams are NOT accurately drawn, unless otherwise indicated.
- You must show all your working out.


## Information

- 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


## 1. Solve $x^{2}+4 x+3>0$

## 2. Solve $x^{2}-x-20<0$

3. Solve $x^{2}-5 x-24>0$
4. Solve $x^{2}-12 x+35<0$
5. Solve $x^{2}-7 x+12 \leqslant 0$
6. Solve $x^{2}+2 x-35 \geqslant 0$

## 7. Solve $x^{2} \leqslant 100$

8. Solve $x^{2}-49>0$

## 9. Solve $x^{2}>8 x+9$

## (4)

10. Solve $6 x^{2}+11 x-10<0$

## 11. Solve $6 x+27>x^{2}$

## (4)

12. Solve $2 x^{2}-11 x+9<0$
13. Work out the integer values that satisfy:

$$
2 x^{2}-10 x+10<0
$$

14. Work out the integer values that satisfy:

$$
x^{2}-7 x+11<0
$$

