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

## 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 $x^{2}-7 x+12 \leq 0$

6 Solve $x^{2}+2 x-35 \geq 0$

7 Solve $x^{2} \leq 100$

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

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

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

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

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

