Name:

# GCSE (1-9) <br> <br> Solving Quadratics <br> <br> Solving Quadratics by Factorising 

## 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 (a) Factorise $a^{2}+3 a-28$
(b) Solve $a^{2}+3 a-28=0$

2 (a) Factorise $x^{2}-7 x+10$
(b) Solve $x^{2}-7 x+10=0$

3 (a) Factorise $b^{2}+9 b+20$
(b) Solve $b^{2}+9 b+20=0$

4 (a) Factorise $x^{2}-3 x-18$
(b) Solve $x^{2}-3 x-18=0$

5 (a) Factorise $y^{2}-10 y+9$
(b) Solve $y^{2}-10 y+9=0$

6 (a) Factorise $a^{2}-a-56$
(b) Solve $a^{2}-a-56=0$

7 Solve $x^{2}+14 x+24=0$

8 Solve $x^{2}+5 x-6=0$

9 Solve $x^{2}+5 x+6=0$

10 Solve $x^{2}-12 x+32=0$

11 Solve $x^{2}+19 x+90=0$

12 Solve $x^{2}+11 x-42=0$

13 Solve $a^{2}-10 a+16=0$

14 Solve $y^{2}-2 y-35=0$

15 Solve $x^{2}+3 x-54=0$

16 Solve $b^{2}-10 b-24=0$

17 Solve $m^{2}+13 m+40=0$

18 Solve $x^{2}+10 x-24=0$

