

Solving Quadratics by Factorising *fluency* *ANSWERS*

 Solve

1 $(x+3)(x-5)=0$
 $x = -3 \text{ or } x = 5$

2 $(x-2)(x-7)=0$
 $x = 2 \text{ or } x = 7$

3 $x(x-4)=0$
 $x = 0 \text{ or } x = 4$

4 $(x+6)(x+1)=0$
 $x = -6 \text{ or } x = -1$

5 $(x-9)(x+2)=0$
 $x = -2 \text{ or } x = 9$

6 $x(x+8)=0$
 $x = -8 \text{ or } x = 0$

 Solve

7 $x^2+5x+6=0$
 $x = -3 \text{ or } x = -2$

8 $x^2+7x+10=0$
 $x = -5 \text{ or } x = -2$

9 $x^2-8x+12=0$
 $x = 2 \text{ or } x = 6$

10 $x^2+2x-15=0$
 $x = -5 \text{ or } x = 3$

11 $x^2-3x-28=0$
 $x = -4 \text{ or } x = 7$

12 $x^2-11x+30=0$
 $x = 5 \text{ or } x = 6$

 Solve

13 $x^2-16=0$
 $x = -4 \text{ or } x = 4$

14 $x^2-6x=0$
 $x = 0 \text{ or } x = 6$

15 $x^2+9x=0$
 $x = -9 \text{ or } x = 0$

16 $x^2-49=0$
 $x = -7 \text{ or } x = 7$

17 $x^2-10x+25=0$
 $x = 5$

18 $x^2+12x+36=0$
 $x = -6$

 Solve

19 $x^2=5x+14$
 $x = -2 \text{ or } x = 7$

20 $x^2+3x=18$
 $x = -6 \text{ or } x = 3$

21 $x^2=81$
 $x = -9 \text{ or } x = 9$

22 $x^2=7x$
 $x = 0 \text{ or } x = 7$

23 $x^2+20=9x$
 $x = 4 \text{ or } x = 5$

24 $x^2-4x=21$
 $x = -3 \text{ or } x = 7$

 Solve

25 $2x^2+10x+12=0$
 $x = -3 \text{ or } x = -2$

26 $3x^2-27=0$
 $x = -3 \text{ or } x = 3$

27 $x(x+2)=15$
 $x = -5 \text{ or } x = 3$

28 $(x+1)^2=9$
 $x = -4 \text{ or } x = 2$

29 $4x^2-8x=0$
 $x = 0 \text{ or } x = 2$

30 $x(x-5)=2x-12$
 $x = 3 \text{ or } x = 4$