Task card 1 Completing the Square

Find the value of c that makes $x^2 + 11x + c$ a perfect-square trinomial.

Task card 2 Completing the Square

Write $x^2 + 16x + 52$ in vertex form $(x - h)^2 + k$.

Task card 3 Completing the Square

Solve by completing the square: $x^2 + 2x - 8 = 0$

Task card 4 Completing the Square

Solve by completing the square: $x^2 - 2x = 63$

Task card 5 Completing the Square

Find the value of c that makes $x^2 + 7x + c$ a perfect-square trinomial.

Task card 6 Completing the Square

Write $x^2 - 6x + 7$ in vertex form $(x - h)^2 + k$.

Task card 7 Completing the Square

Solve by completing the square: $x^2 + 6x + 5 = 0$

Task card 8 Completing the Square

Solve by completing the square: $x^2 + 10x = 11$

Task card 9 Completing the Square

Find the value of c that makes $x^2 - 5x + c$ a perfect-square trinomial.

Task card 10 Completing the Square

Write $x^2 + 6x + 1$ in vertex form $(x - h)^2 + k$.

Task card 11 Completing the Square

Solve by completing the square: $x^2 + 20x + 19 = 0$

Task card 12 Completing the Square

Solve by completing the square: $x^2 - 6x = 27$

Task card 13 Completing the Square

Find the value of c that makes $x^2 + 3x + c$ a perfect-square trinomial.

Task card 14 Completing the Square

Write $x^2 - 2x - 13$ in vertex form $(x - h)^2 + k$.

Task card 15 Completing the Square

Solve by completing the square: $x^2 + 12x - 28 = 0$

Task card 16 Completing the Square

Solve by completing the square: $x^2 + 20x = -64$

Task card 17 Completing the Square

Find the value of c that makes $x^2 - 13x + c$ a perfect-square trinomial.

Task card 18 Completing the Square

Write $x^2 + 16x + 65$ in vertex form $(x - h)^2 + k$.

Task card 19 Completing the Square

Solve by completing the square: $x^2 - 18x + 32 = 0$

Task card 20 Completing the Square

Solve by completing the square: $x^2 + 12x = -27$

Task card 21 Completing the Square

Find the value of c that makes $x^2 - 11x + c$ a perfect-square trinomial.

Task card 22 Completing the Square

Write $x^2 - 20x + 98$ in vertex form $(x - h)^2 + k$.

Task card 23 Completing the Square

Solve by completing the square: $x^2 - 14x + 24 = 0$

Task card 24 Completing the Square

Solve by completing the square: $x^2 + 20x = -75$

Completing the Square Task Cards

Recording sheet · Grade 9 · Answer each question. Write vertex form like (x + 3)^2 - 4 and two solutions like x = -7 or x = 1.

Scan to check your answers

Name: _____ Date: _____

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24

Completing the Square Task Cards: Answer Key

Grade 9 · Hard

The answers online

1. $\frac{121}{4}$	**2.** $(x + 8)^2 - 12$	**3.** x = -4 or x = 2
4. x = -7 or x = 9	**5.** $\frac{49}{4}$	**6.** $(x - 3)^2 - 2$
7. x = -5 or x = -1	**8.** x = -11 or x = 1	**9.** $\frac{25}{4}$
10. $(x + 3)^2 - 8$	**11.** x = -19 or x = -1	**12.** x = -3 or x = 9
13. $\frac{9}{4}$	**14.** $(x - 1)^2 - 14$	**15.** x = -14 or x = 2
16. x = -16 or x = -4	**17.** $\frac{169}{4}$	**18.** $(x + 8)^2 + 1$
19. x = 2 or x = 16	**20.** x = -9 or x = -3	**21.** $\frac{121}{4}$
22. $(x - 10)^2 - 2$	**23.** x = 2 or x = 12	**24.** x = -15 or x = -5