Task card 1 Completing the Square

Find the value of c that makes $x^2 + 6x + c$ a perfect-square trinomial.

Task card 2 Completing the Square

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

Task card 3 Completing the Square

Find the value of c that makes $x^2 - 10x + c$ a perfect-square trinomial.

Task card 4 Completing the Square

Solve by completing the square: $x^2 - 4x - 12 = 0$

Task card 5 Completing the Square

Find the value of c that makes $x^2 - 4x + c$ a perfect-square trinomial.

Task card 6 Completing the Square

Write $x^2 + 10x + 26$ in vertex form $(x - h)^2 + k$.

Task card 7 Completing the Square

Find the value of c that makes $x^2 + 8x + c$ a perfect-square trinomial.

Task card 8 Completing the Square

Solve by completing the square: $x^2 - 8x - 9 = 0$

Task card 9 Completing the Square

Find the value of c that makes $x^2 - 6x + c$ a perfect-square trinomial.

Task card 10 Completing the Square

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

Task card 11 Completing the Square

Solve by completing the square: $x^2 + 6x + 8 = 0$

Task card 12 Completing the Square

Find the value of c that makes $x^2 + 4x + c$ a perfect-square trinomial.

Task card 13 Completing the Square

Write $x^2 + 6x + 11$ in vertex form $(x - h)^2 + k$.

Task card 14 Completing the Square

Solve by completing the square: $x^2 - 6x - 55 = 0$

Task card 15 Completing the Square

Write $x^2 + 8x + 27$ in vertex form $(x - h)^2 + k$.

Task card 16 Completing the Square

Solve by completing the square: $x^2 + 2x - 48 = 0$

Task card 17 Completing the Square

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

Task card 18 Completing the Square

Write $x^2 + 14x + 56$ in vertex form $(x - h)^2 + k$.

Task card 19 Completing the Square

Solve by completing the square: $x^2 - 14x + 45 = 0$

Task card 20 Completing the Square

Solve by completing the square: $x^2 + 12x - 45 = 0$

Task card 21 Completing the Square

Write $x^2 - 10x + 34$ in vertex form $(x - h)^2 + k$.

Task card 22 Completing the Square

Find the value of c that makes $x^2 - 8x + c$ a perfect-square trinomial.

Task card 23 Completing the Square

Solve by completing the square: $x^2 + 6x - 7 = 0$

Task card 24 Completing the Square

Find the value of c that makes $x^2 + 10x + c$ a perfect-square trinomial.

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 · Easy

The answers online

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