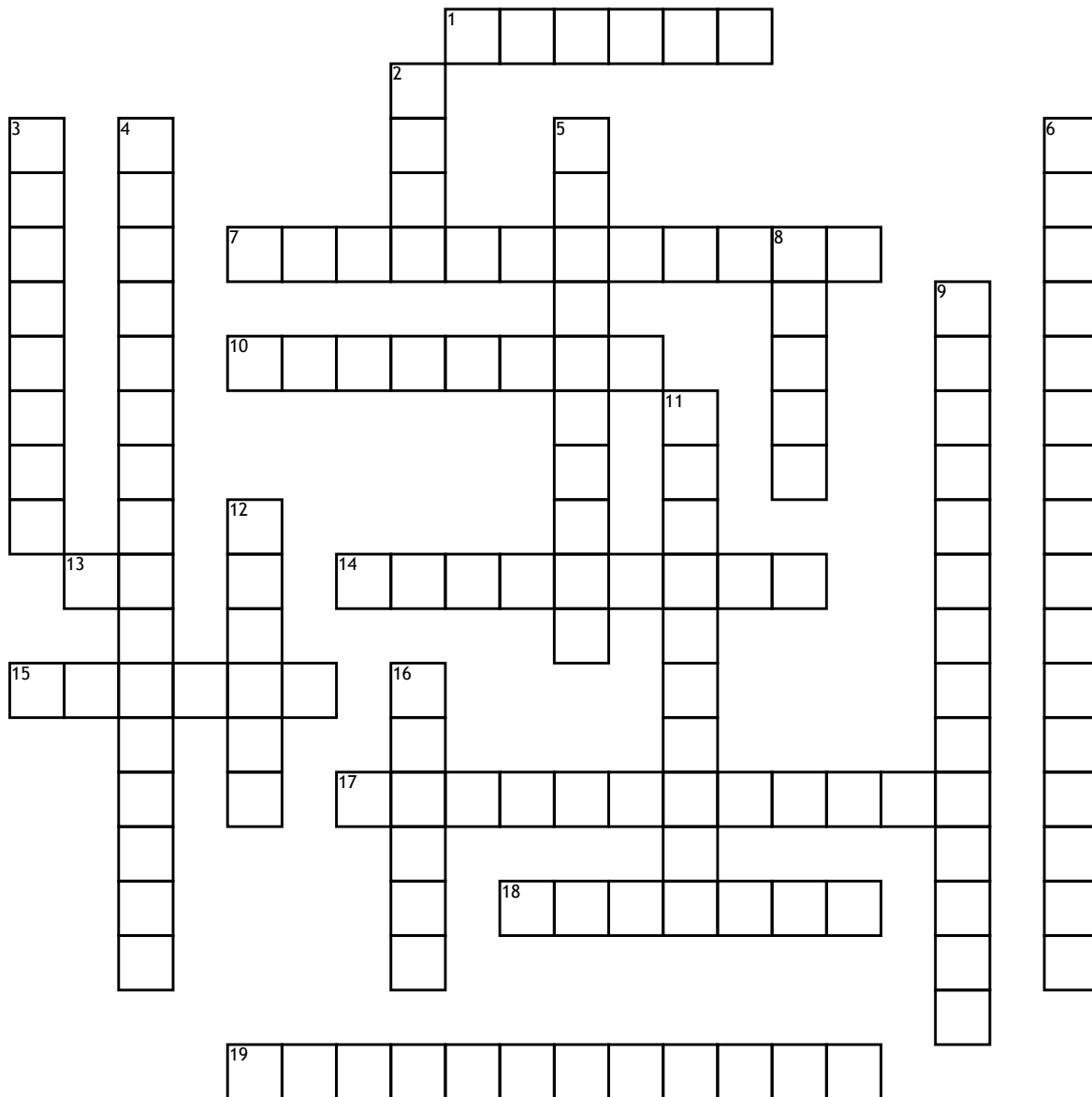


Name: \_\_\_\_\_

Date: \_\_\_\_\_

# Quadratics



## Across

1. What does  $\{x \in \mathbb{R}\}$  represent?

7.  $y = ax^2 + bx + c$

10. If  $a$  is a whole number the parabola is?

13.  $a$  is positive the direction of opening is...

14. Is the equation  $y = x^2 + 4$  quadratic or linear?

15. maximum or minimum value

17.  $y = a(x-r)(x-s)$

18. if  $a$  is a fraction the parabola is..

19. To find the x-intercepts use...

## Down

2.  $A$  is negative, opening is..

3. A ball was thrown and its height in meters is modelled by  $h = -(t-2)^2 + 6$ . Where  $t$  is the time in number of seconds the ball was in the air. When was the ball 6 meters above the ground?

4.  $y = x^2$

5.  $y = a(x-h)^2 + k$

6. The formula  $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$  represents...

8. Another name for x-intercepts

9. Line that divides the parabola in two perfect halves.

11. The point where the parabola crosses the y-axis

12. is the equation  $xy = 8$  linear or quadratic?

16. The formula  $x = \frac{r+s}{2}$  gives you the?