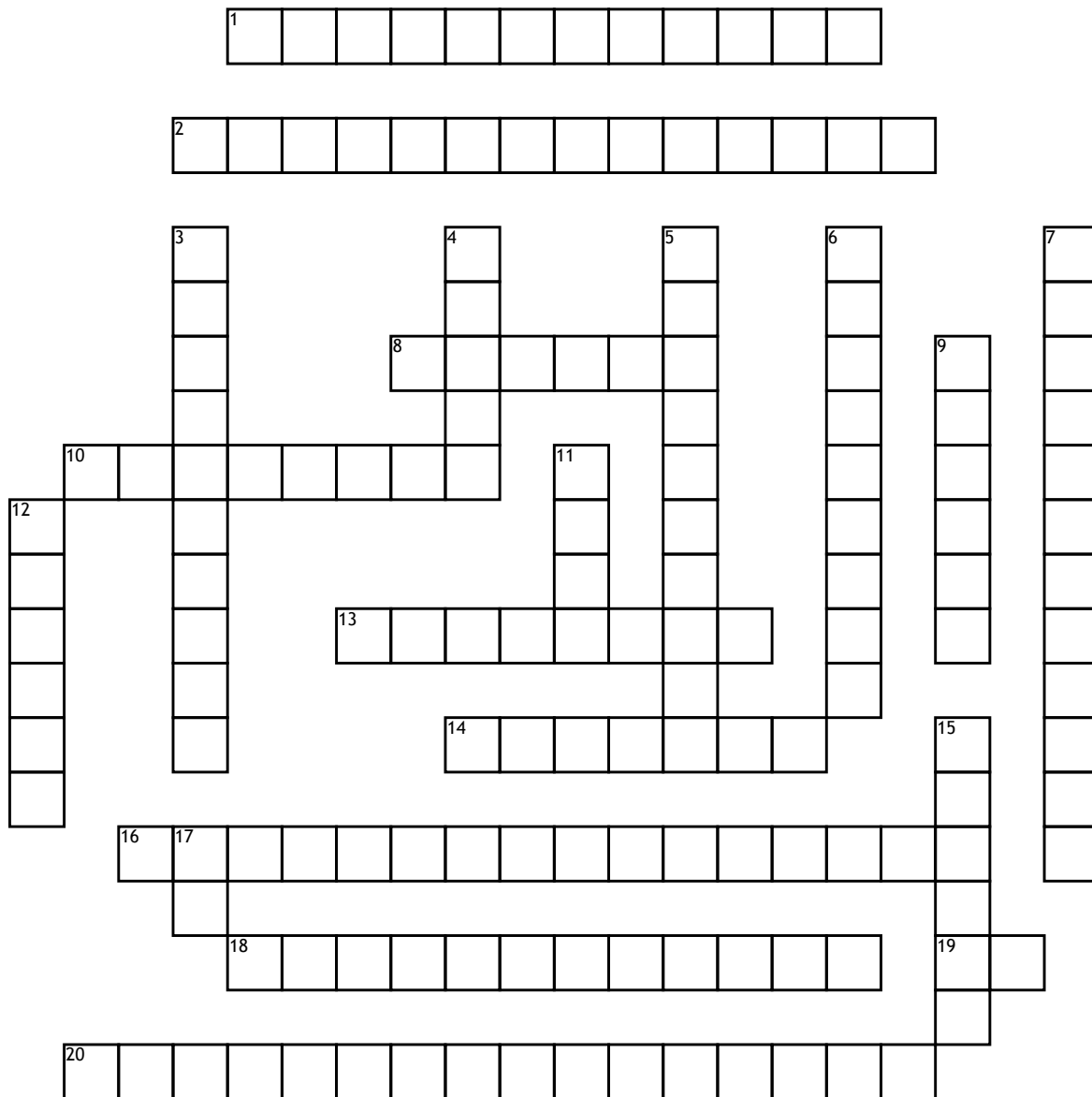


Name: \_\_\_\_\_

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

# Quadratics



## Across

1.  $Y = ax^2 + bx + c$
2. Line that divides the parabola in two perfect halves
8. What does  $\{x \in \mathbb{R}\}$  represent?
10. 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?
13. if  $a$  is a whole number the parabola is..

14. If  $a$  is a fraction the parabola is..

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

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

19.  $a$  is positive, the opening is..

20.  $Y = x^2$

## Down

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

4. Another name for x-intercepts

5. The point where the parabola crosses the x-axis

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

7. To find the x-intercepts use..

9. Is the equation  $xy = 8$  linear or quadratic?

11.  $a$  is negative the opening is..

12. minimum or maximum value

15. The formula  $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$  gives you the?

17.  $a$  is positive, the opening is..