Number Patterns: Part 1

(1) What is the next number in the series: 1, 2, 4, 3, 9, 4, 16, 5, 25?

    a. 6   **b.** 25

    c. 5   **d.** 7

(2) What is the next term in this series?

$$\frac{1}{3}, \frac{1}{5}, \frac{1}{8}, \frac{1}{12}, \frac{1}{17}, \ldots$$
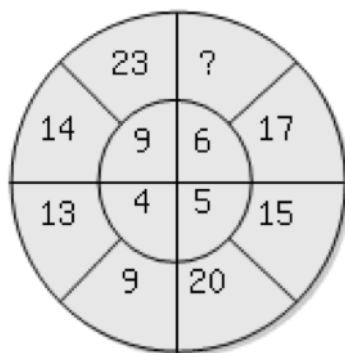
    a. $\dfrac{1}{21}$ **b.** $\dfrac{1}{22}$

    c. $\dfrac{1}{23}$ **d.** $\dfrac{1}{25}$

Fill in the blanks

(3) The value of missing term is _____ .

(4) The missing number is _____ .