

## Class-6

### Worksheet

Solve all the questions properly with a proper format, finishing lines and do write questions along with the answers in your homework notebook only.

All questions are compulsory.

Q1: How many lines of symmetry does a regular hexagon have?

- (a) 3
- (b) 4
- (c) 6
- (d) 8

Q2: The perimeter of a square is 20 cm. What is the length of one side?

- (a) 4 cm
- (b) 5 cm
- (c) 10 cm
- (d) 8 cm

Q3: In the fraction  $\frac{5}{6}$ , what is 5 called?

- (a) Denominator
- (b) Quotient
- (c) Numerator
- (d) Whole number

Q4: Convert the improper fraction  $\frac{11}{4}$  into a mixed fraction.

- (a)  $2\frac{3}{4}$
- (b)  $3\frac{1}{4}$
- (c)  $4\frac{1}{2}$
- (d)  $2\frac{2}{3}$

Q5: The temperature in a city is  $-5^{\circ}\text{C}$  in the morning. By noon, it rises by  $8^{\circ}\text{C}$ . What is the temperature at noon?

- (a)  $3^{\circ}\text{C}$
- (b)  $-3^{\circ}\text{C}$
- (c)  $5^{\circ}\text{C}$
- (d)  $-13^{\circ}\text{C}$

Q6: Add the following fractions using Brahmagupta's method:

$$\frac{3}{8} + \frac{5}{8}$$

- (a)  $\frac{8}{8}$

(b)  $\frac{3}{16}$

(c)  $\frac{5}{16}$

(d)  $\frac{1}{2}$

**Q7: Which of the following pairs of numbers are co-prime?**

(a) 8 and 12

(b) 15 and 35

(c) 9 and 16

(d) 10 and 20

**Q8: What is a pictograph?**

(a) A graph that uses pictures or objects to represent data

(b) A bar graph with horizontal bars

(c) A method to calculate frequencies

(d) A mathematical operation

**Q9: A figure has rotational symmetry if it can be rotated by an angle less than \_\_ and still look the same.**

(a)  $90^\circ$

(b)  $180^\circ$

(c)  $360^\circ$

(d)  $270^\circ$

**Q10: Where can fractions be represented visually?**

(a) Number line

(b) Pie chart

(c) Only in decimal form

(d) In whole numbers

**Q11: Aarav is arranging chairs in a triangular pattern. The first row has 2 chairs, the second row has 5 chairs, the third row has 9 chairs, and the fourth row has 14 chairs. If he continues this pattern, how many chairs will be in the fifth row?**

**Q12: Construct a rectangle having adjacent sides of 6 cm and 4 cm.**

**Q13: What is the sum of the smallest and largest 6-digit palindrome? What is their difference?**

**Q14: Subtract 3 from -4 using a number line.**

**Q15: Write two equivalent fractions for  $\frac{3}{7}$ .**

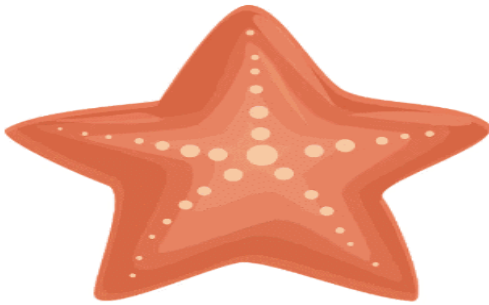
**Q16: A square-shaped rug has a side length of 9 m. Find its area.**

Q17: Below is a sequence of matchstick patterns. Observe the pattern carefully and continue it forward. Also, give number pattern for the same :

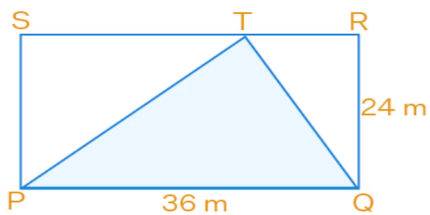
Number of matchsticks: 3, 5, 7, \_\_ , \_\_



Q20: Do you see any Line of symmetry in the figures given below?. How many are there?



Q21: Find the area of the shaded portion in the given figure .



Q22: A rectangular parking lot is 500 m long and 200 m wide. If the cost of painting the parking lines is ₹8 per 100 sq. m, what is the total cost to paint the entire lot?

