BURARI PUBLIC SCHOOL

…a venture with UNIQUE

PERIODIC ASSIGNMENT-IV (2025-26)

CLASS - VI
SUBJECT- MATHEMATICS   Date_____

M.M. - 40

Name: …………………….......…....……… **Roll No:…… T. Sign:** …………..…

General Instructions
- All questions are compulsory.
- This question paper is divided into five sections: A, B, C, D, and E.
- Section A - Q1 - Multiple choice questions,
- Section B – Q2 – Q5 (1 mark questions)
- Section C – Q6 – Q10 (2 marks questions)
- Section D – Q11 – Q15 (3 marks questions)
- Section E – Q16 - Assertion and Reason
  - Q17 - Case study.

SECTION – A

Q1. Multiple choice questions: **1× 6= 6 marks**

1. **A triangle having all sides of different lengths is called**
   - a) an isosceles triangle
   - c) an equilateral triangle
   - b) a scalene triangle
   - d) none of these

2. **An angle formed by two opposite rays is called a**
   - a) Zero angle
   - c) Complete angle
   - b) Obtuse angle
   - d) Straight angle

3. **Where does the vertex of an angle lie?**
   - a) in its interior
   - c) in its exterior
   - b) on the angle
   - d) none of these

4. **The ratio 28:35 in its simplest form is**
   - a) 7:5
   - c) 4:5
   - b) 5:4
   - d) none of these

5. **If the cost of 12 pencils is ₹48, then cost of 8 pencils is**
   - a) ₹32
   - c) ₹24
   - b) ₹18
   - d) ₹40

6. **A triangle with all angles less than 90° is**
   - a) Right triangle
   - c) Obtuse triangle
   - b) Acute angled triangle
   - d) isosceles triangle

SECTION – B (1 mark questions)

Q2. Fill in the blanks:

(a) The first term of a ratio is called as _____.

(b) Each angle of an equilateral triangle measures _____.

Q3. Draw a right-angled triangle of any length of sides and name it.

Q4. Find the ratio of 12 seconds to 2 minutes.

Q5. Which ratio is greater?

     9:11 or 7:3

SECTION – C (2 marks questions)

Q6. There are 360 boys and 480 girls in a school. Find the ratio of the number of boys to the number of girls.

Q7. Classify the given angles:

    1. 15°   2. 228°   3. 129°   4. 90°

Q8. The second, third and fourth terms of a proportion are 44, 6 and 8 respectively. Find the first term.

Q9. Find x in the given proportion:

    $18 : x :: 27 : 3$

Q10. If 30 bananas cost ₹35, find the cost of 78 bananas.

SECTION – D (3 marks questions)

Q11. There are 1200 workers in a factory. Out of these the number of male workers is 840 and the remaining are female workers. Find the ratio of:

(a) the number of male workers to the number of total workers.

(b) the number of female workers to the total number of workers.

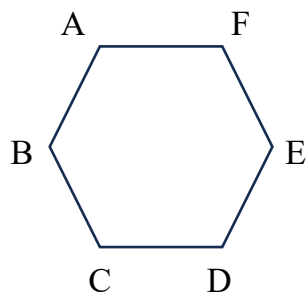(c) number of male workers to the number of female workers.

Q12. Draw the following angle using a protractor:

  a) 75^0 b) 120^0

Q13. The weight of 45 folding chairs is 18 kg. Find the weight of 60 such chairs.

Q14. How many angles are formed in each of the figures given below? Name them

Q15. Two numbers are in the ratio 2:7. If the sum of the numbers is 81, find the numbers.

Q16. Assertion and reason: **(2 marks)**

In each of the following questions, an Assertion (A) and a corresponding Reason (R) supporting it is given.

Study both the statements and state which of the following is correct:

(a) Both A and R are true and R is the correct explanation of A.

(b) Both A and R are true and R is not the correct explanation of A.

(c) A is true, but R is false.

(d) A is false, but R is true.

1. **Assertion (A):** A reflex angle is always less than 180°.
   Reason (R): A reflex angle measures more than 180° but less than 360°.

2. **Assertion (A):** An isosceles triangle has at least two sides equal.
   Reason (R): The angles opposite the equal sides of an isosceles triangle are equal.

Q17. Case study   **(3 marks)**

A teacher takes students to the school playground for a practical geometry activity. The teacher asks students to observe different objects around them and identify the angles formed.

The students notice the following:

- The clock on the school wall shows 9 o'clock.
- The open door of a classroom makes an angle of 120° with the wall.
- The corner of a notebook forms an angle of 90°.
- The scissors kept on a table form an angle of 45°.
- A straight road near the school gate forms an angle of 180°.

   On the basis of above details answer the following:

   1. What type of angle is formed by the clock at 3:00?
   2. Why is the angle formed by the scissors called an acute angle?
   3. Name any two objects from daily life that form a right angle.