# BK BIRLA CENTRE FOR EDUCATION

**SARALA BIRLA GROUP OF SCHOOLS**
**SENIOR SECONDARY CO-ED DAY CUM BOYS' RESIDENTIAL SCHOOL**
**POST MID-TERM (2024-25)**
**MATHEMATICS (041) ANSWER KEYS**

Class   : VI                                                        Duration: 1 Hrs.

Date   :8.01.2025                                            Max. Marks: 25

Admission No.:                                             Roll No.:

*General Instructions:*
*Questions 1 to 5 are 1 mark each.*
*Questions 6 to 9 are of 2 marks each.*
*Questions 10 and 13 are of 3 marks each.*

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**SECTION-A**                    $(5 \times 1 = 5)$

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**Choose the correct answer.**

1)   An angle whose measure is equal to half of a revolution is

   a)  right angle      b) acute angle      **c) straight angle**      d) obtuse angle

2) Where will the hand of a clock stop if it starts at 12 and makes 3/4 of a revolution, clockwise?

   a)  6                  b) 3                  **c) 9**                  d) None of these

3) Which of the following is a complete angle?

   a)  $90^0$            b) $180^0$           c) $270^0$           **d) $360^0$**

4) What angle is formed when the minute hand moves from 12 to 3?

   a)  **Right angle**      b) Acute angle      c) Straight angle      d) Obtuse angle

5) How many right angles makes a complete angle?

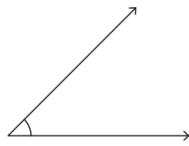   a)  1                  b) 2                  c) 3                  **d) 4**

<div align="center">

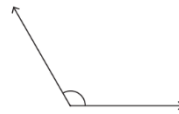**SECTION- B**                    $(4 \times 2 = 8)$

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6)   What fraction of a clockwise revolution does the hour hand of a clock turn through, when it goes from

   a)  3 to 9

      When hour hand goes from 3 to 9 clockwise, it will rotate by 2 right angles

      ∴ Fraction = 1 / 2 _____ (1)

   b)  4 to 7

      When hour hand goes from 4 to 7 clockwise, it will rotate by 1 right angle.

       ∴ Fraction = 1 / 4 _____ (1)

7) Measure the angles given below using the Protractor and write down the measure.
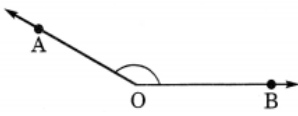
a)

b)

(a) The measure of an angle is $45^0$  _____ (1)

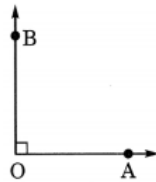(b) The measure of an angle is $120^0$  _____ (1)

8) Classify each one of the following angles as right, straight, acute or obtuse:
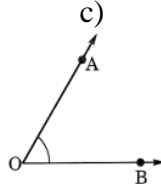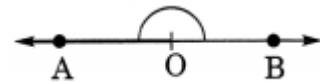(1/2 mark for each correct ans)

a)    b)    c)    d)

(a)The given angle is obtuse angle as it measures more than $90^0$ but less than $180^0.$

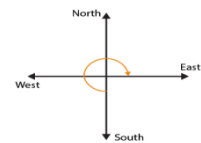(b) The given angle is right angle as it measures $90^0$

(c) The given angle is acute angle it measures less than $90^0$

(d)The given angle is straight angle as it measures $180^0$

9) How many right angles do you make if you start facing:

(a) South and turn clockwise to east:  3 right angle _____ (1)

(b) East and turn anti-clockwise to east: 4 right angle _____(1)
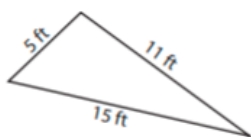
## SECTION- C

(4 × 3 = 12)

10) Which direction will you face if you start facing:
(a) North and make $\frac{3}{4}$ of a revolution anti-clockwise: West____ ($1\frac{1}{2}$)
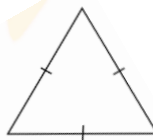(b) West and make$1\frac{1}{2}$ of a revolution clockwise: east _____ ($1\frac{1}{2}$)

11)What are the types of the following triangles on the basis of sides?

a)    b)    c)

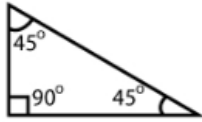scalene triangle _____ (1)    Equilateral triangle _____ (1)    Isosceles triangle _____ (1)
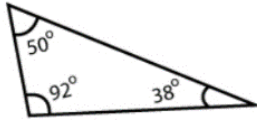
**OR**

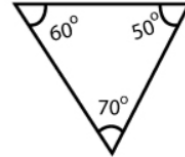What are the types of the following triangles on the basis of angles?
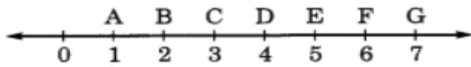
a)

b)

c)

Right angled triangle _____ (1)    Obtuse angled triangle __ (1)   Acute angled triangle__(1)

12) Verify, whether D is the midpoint of AG.

AB+BC+CD =3 Units _____ (1)

DE+EF+FG =3 Units

AB+BC+CD = DE+EF+FG_____ (1)

It is clear from the figure that AD = DG = 3 units. Hence, D is the midpoint. _____ (1)

13) Write the name of shape. Also, find the number of faces and vertices.

a)

b)

A cube _____ $(1\frac{1}{2})$

A sphere

It has 12 edges and 8 vertices.     A sphere has one large curved face. _____ $(1\frac{1}{2})$

Vertices: A sphere has no vertices

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*THE END\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*