Mathematics

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(Chapter 5) (Understanding Elementary Shapes) (Practice Test - 6)

(Class VI)

Time Allowed: 1 Hour 15 Minutes

Maximum Marks: 25

General Instructions:

- This question paper contains four sections A, B, C, D. Each part is compulsory.
- Section A has 5 MCQ of one mark each.
- Section B has 3 questions of two marks each.
- Section C has 3 questions of three marks each.
- Section D has 2 questions of five marks each, attempt any 1 out of 2.
- There is no negative marking.

Section - A

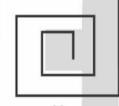
- 1. A circle of radius r cm has diameter of length
- (A) r cm
- (B) 2r cm
- (C) 4r cm
- (D) r/2 cm

- 2. An angle of measure 180° is called
- (A) a zero angle
- (B) a right angle
- (C) a straight angle
- (D) a reflex angle

- 3. The measure of an obtuse angle < 90°
- (A) True
- (B) False
- (C) None of these
- 4. All the sides of a rhombus are of equal length.
- (A) True
- (B) False
- (C) None of these
- 5. A quadrilateral whose each angle is a right angle is a
- (A) square
- (B) rectangle
- (C) rhombus
- (D) parallelogram

Section - B

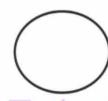
6. Examine whether the following are polygons. If anyone among them is not, say why?



(i)



(ii)



(iii)



(iv)

7. Give reasons for the following:

A square can be thought of as a special rectangle.

8. Give reasons for the following:

Squares, rectangles, parallelograms are all quadrilaterals.

Section - C

- 9. What fraction of a clockwise revolution does the hour hand of a clock turn through, when it goes from
- (A) 12 to 9
- (B) 1 to 10
- (C) 6 to 3

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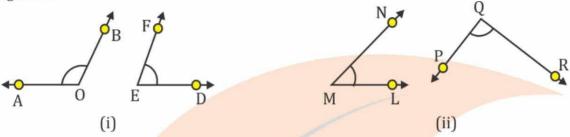
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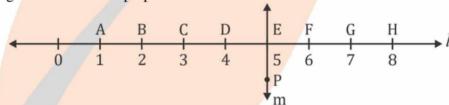
10. By simply looking at the pair of angles given in Figure, state which of the angles in each of the pairs is greater:



- 11. What is the measure of the angle in degrees between:
- (A) North and West?
- (B) North and South?
- (C) North and South-East?

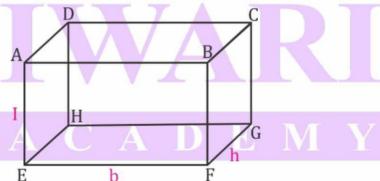
Section - D

12. Study the diagram. The line l is perpendicular to line m.



- (A) Is CE = EG?
- (B) Does PE bisect CG?
- (C) Identify any two line segments for which PE is the perpendicular bisector.
- (D) Are these true?
- (i) AC > FG
- (ii) CD = GH
- (iii) BC < EH

13. The lengths of the edges AE, EF, and FG are indicated as l, b and h respectively. Indicate the lengths of all other edges.



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Answers

Section - A

- 1. 2r cm
- 2. A straight angle
- 3. False
- 4. True
- 5. Rectangle

Section - B

- 6. (i) It is not a closed figure. Hence, it is not a polygon.
- (ii) It is a polygon.
- (iii) No it is not a polygon because it is not made of line segments
- (iv) It is not a polygon as it is not made of line segments.
- 7. A rectangle in which all the interior angles are of same measure i.e. 90° and only opposite sides of the rectangle are of same length whereas in square all the interior angles are of 90° and all the sides of the square are of same length. Hence, a rectangle with all sides equal becomes a square. Therefore, square is a special rectangle.
- 8. Since, all are closed figures with 4 line segments. Hence all are quadrilaterals.

Section - C

9.

- (A) 3 / 4
- (B) 3 / 4
- (C)3/4

10.

- (i) $\angle AOB > \angle DEF$
- (ii) ∠PQR > ∠LMN

11.

- (A) 90°.
- (B) 180°
- (C) 135°.

Section - D

- 12. (A) Yes
- (B) Yes
- (C) \overline{BH} and \overline{DF} are the line segments for which PE is the perpendicular bisector
- (i) True
- (ii) True
- (iii) True

13. AE = DH = BF = CG = 1

EF = HG = AB = DC = b

FG = EH = BC = AD = h

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