

Mathematics

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(Chapter 5) (Understanding Elementary Shapes) (Practice Test - 3)

(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. By joining any two points on a circle, we obtain its
(A) radius (B) diameter (C) chord (D) circumference
2. The vertex of an angles lies
(A) in its interior (B) in its exterior (C) on the angle (D) inside the angle
3. The measure of one complete revolution = 360°
(A) True (B) False (C) Undetermined
4. The diagonals of a square are perpendicular to one another.
(A) True (B) False (C) Undetermined
5. A quadrilateral having two pairs of equal adjacent sides but unequal opposite sides is called a
(A) trapezium (B) parallelogram (C) kite (D) rectangle

Section – B

6. Draw a rough sketch of a regular octagon. (Use squared paper if you wish). Draw a rectangle by joining exactly four of the vertices of the octagon.
7. If A, B, C are three points on a line such that $AB = 5$ cm, $BC = 3$ cm and $AC = 8$ cm, which one of them lies between the other two?
8. Where will the hand of a clock stop if it
(A) Starts at 12 and makes $1/2$ of a revolution, clockwise?
(B) Starts at 2 and makes $1/2$ of a revolution, clockwise?

Section – C

9. There are two set squares in your box. What are the measures of the angles that are formed at their corners? Do they have any angle measure that is common?
10. What fraction of a clockwise revolution does the hour hand of a clock turn through, when it goes from
(A) 3 to 9 (B) 4 to 7 (C) 7 to 10
11. (A) A cuboid has vertices.
(B) A cuboid has edges
(C) A cuboid has Faces

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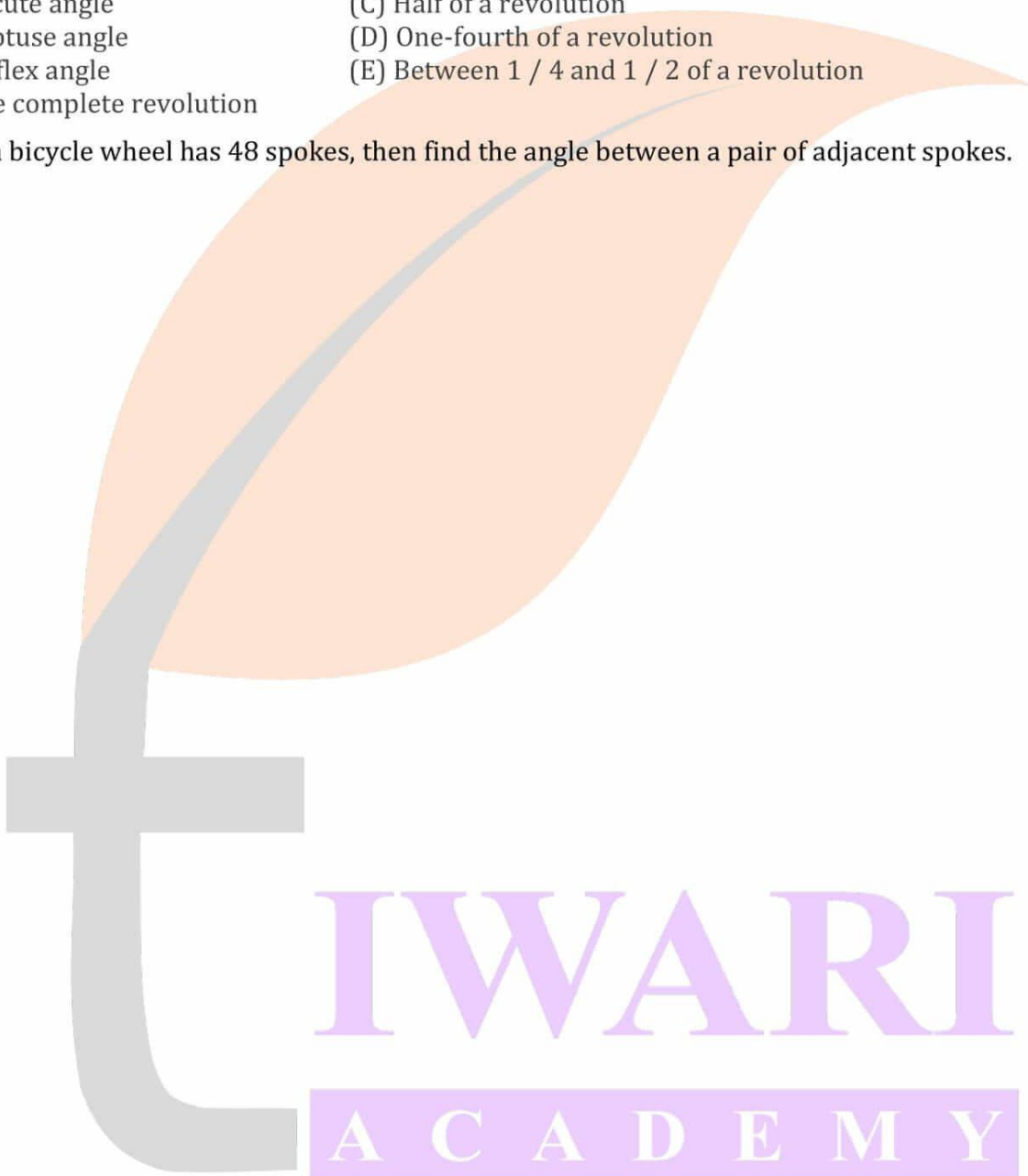
(Class VI)

Section - D

12. Match the following:

- | | |
|-----------------------------|---|
| (i) Straight angle | (A) Less than one-fourth of a revolution |
| (ii) Right angle | (B) More than half a revolution |
| (iii) Acute angle | (C) Half of a revolution |
| (iv) Obtuse angle | (D) One-fourth of a revolution |
| (v) Reflex angle | (E) Between $1/4$ and $1/2$ of a revolution |
| (f) One complete revolution | |

13. If a bicycle wheel has 48 spokes, then find the angle between a pair of adjacent spokes.



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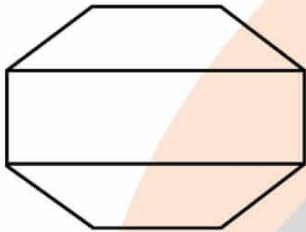
Answers

Section - A

1. Chord
2. On the angle
3. True
4. True
5. Kite

Section - B

6.



7. $AB = 5 \text{ cm}$

$BC = 3 \text{ cm}$

$AC = 8 \text{ cm}$

Now, it is clear that $AC = AB + BC$. Hence, point B lies between A and C.

8. (A) When hour hand of a clock starts at 12 and makes $1/2$ revolution clockwise, it will rotate by 180°. Hence, the hour hand of a clock will stop at 6.

(C) When hour hand of a clock starts at 2 and makes $1/2$ revolution clockwise, it will rotate by 180°. Hence, the hour hand of a clock will stop at 8.

Section - C

9. The measure of angles in one set square are 30° , 60° and 90° . The other set square has a measure of angles 45° , 45° and 90° . Yes, the angle of measure 90° is common in between them

10. (A) $1/2$

(B) $1/4$

(C) $1/4$

11. (A) 8

(B) 12

(C) 6

Section - D

12. (i) - (C)

(ii) - (D)

(iii) - (A)

(iv) - (E)

(v) - (B)

13. 7.5°

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