

INTERNATIONAL INDIAN SCHOOL, DAMMAM

MIDDLE SECTION

ANNUAL EXAM WORKSHEET -2025 -26

CLASS VI

SUBJECT -MATHEMATICS

CH.6 PERIMETER AND AREA

CHOOSE THE CORRECT ANSWER.

- 1) A piece of string is 36 cm long. A square is formed using it, then each side of the square will be  
a) 6 cm    b) 9 cm    c) 12 cm    d) 18 cm
- 2) The area of rectangle with  $l = 10\text{m}$  and  $b = 5\text{m}$  is  
a) 20 sq. m    b) 25 sq. m    c) 50 sq. m    d) 100 sq. m
- 3) Find the side of the square whose perimeter is 32 cm:  
a) 6 m    b) 4 cm    c) 12 cm    d) 8 cm
- 4) Two regular pentagons of side 5 cm are joined together as shown in the figure. Find the perimeter of the new figure.  
a) 35 cm    b) 45 cm  
c) 40 cm    d) 50 cm



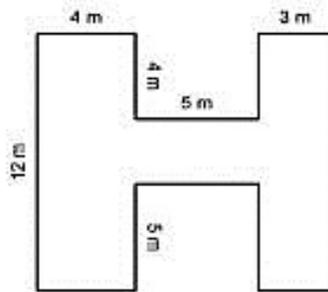
- 5) Which figure encloses more area: a square of side 2 cm or a rectangle of side lengths 3 cm and 2 cm?  
a) Square    b) Rectangle    c) Both have equal areas    d) None of these
- 6) The area is expressed in the following units.  
a) square units    b) unit    c) cube units    d) None of these

ANSWER THE FOLLOWING QUESTIONS

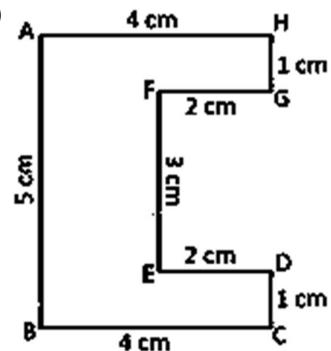
- 7) A man is running around a square field of side 13m. How much distance does he cover?
- 8) The area of a rectangular garden is 2900 sq. m. If its breadth is 29m, find the length of the garden?
- 9) Which playground has bigger area? One that measures 50 m by 40 m and another that measures 75 m by 20 m.
- 10) Length of a rectangular field is 220 m and width is 130m. If a man runs around this field 3times, find the distance covered by him?

11) Find the area of the given figure by splitting it into rectangles:

a)



b)



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**ASSERTION AND REASONING:** -

12) Assertion (A) : If a square, a rectangle, and a triangle are all made from a string of length 30 cm, their perimeters will be same.

Reason (R) : Sides of square, rectangle and triangle are of same length.

- a) Both A and R are true, and R is the correct explanation of A.
- b) Both A and R are true but R is not the correct explanation of A.
- c) A is true but R is false.
- d) A is false but R is true.

13) Assertion (A): A piece of a string is 30 cm long. If the string is used to form an equilateral triangle, then the length of each side will be 10 cm.

Reason (R) : Perimeter of equilateral triangle = 3 x (side).

- a) Both A and R are true, and R is the correct explanation of A.
- b) Both A and R are true but R is not the correct explanation of A.
- c) A is true but R is false.
- d) A is false but R is true.

**CASE STUDY:** -

14) A rectangle garden has a perimeter of 280 feet. The north side of the garden is 90 feet.



- I) What does the north side and the east side of the garden represents?
- II) What is the length of the east side of the garden?
- III) What is the area of the garden?

15) Gavin's and Rachel's plots are shown below. The perimeter of Gavin's rectangular plot is 600 m and Rachel's square plot is 400 m.

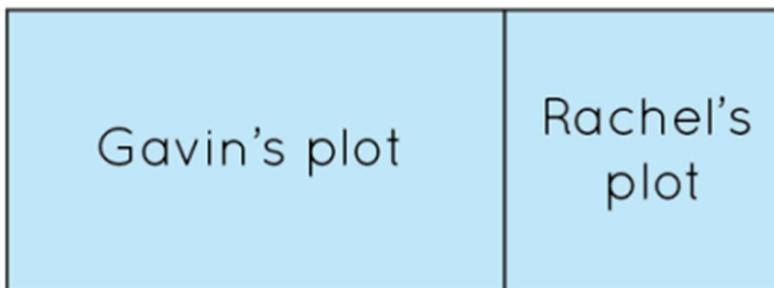
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- I) What is the length of one side of Rachel's plot?
- II) If the length of Gavin's plot is 200 m, find its area?
- III) If Gavin buys Rachel's plot, what is the new perimeter of his land in km?

**CH-7 FRACTIONS**

**CHOOSE THE CORRECT ANSWER**

- 1) Four friends ordered 3 glasses of sugarcane juice and shared it equally. Each one drank \_\_\_\_\_ glass of sugarcane juice.  
a)  $\frac{2}{4}$  b)  $\frac{3}{4}$  c)  $\frac{4}{3}$  d)  $\frac{1}{2}$
- 2) How many whole units are in  $\frac{9}{2}$   
a) 9 b) 2 c) 4 d) 3
- 3) Fractions where the shares are equal are called \_\_\_\_\_ -  
a) Equivalent Fractions b) Equal fractions c) Like Fractions d) Opposites
- 4) The equivalent fraction of  $\frac{3}{5}$  with denominator 20 is  
a)  $\frac{12}{20}$  b)  $\frac{20}{12}$  c)  $\frac{9}{20}$  d)  $\frac{15}{20}$
- 5) The sum of the fraction of  $\frac{1}{18}$  and  $\frac{1}{18}$  is given by  
a)  $\frac{1}{18}$  b)  $\frac{1}{9}$  c)  $\frac{36}{18}$  d)  $\frac{2}{36}$
- 6) Assertion (A) – The simplest form of  $\frac{24}{48}$  is  $\frac{1}{2}$ .

Reason (R) – A fraction is said to be in the simplest form if its numerator and denominator have no common factor except 1.

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- a) Both A and R are true and R is the correct explanation of A  
b). Both A and R are true but R is not the correct explanation of A  
c) A is true but R is false  
d) A is false but R is true

7) Assertion (A) –  $6/20 > 8/20$

Reason (R) – For two fractions with the same denominator, the fraction with greater numerator is greater.

- a) Both A and R are true and R is the correct explanation of A  
b). Both A and R are true but R is not the correct explanation of A  
c) A is true but R is false  
d) A is false but R is true

**Answer the following questions**

8) On a number line , draw lines of length  $2/5$ ,  $3/8$  and  $5/9$

9) Write the following fractions as mixed fractions

- a)  $29/5$     b)  $55/8$

10 ) Write two equivalent fractions for  $6/14$

11) Solve

- a) Subtract  $4/6$  from  $6/5$   
b) Add  $3 \frac{1}{4}$  and  $2 \frac{5}{6}$   
c)  $3/8 = \square /24$   
d)  $32/48 = 2 / \square$

12) Shikha and Priya have bookshelves of the same size Shikha’s shelf is  $5/6$  full of book and Priya’s shelf is  $2/5$  full. Whose bookshelf is more full? By what fraction?

13) A piece of a wire  $7/8$  metres long broke into two pieces. One piece was  $1/4$  meter long. How long is the other piece?

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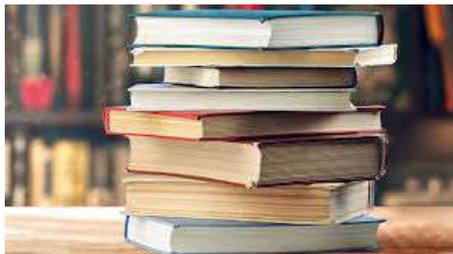
**Case study Questions:**

14) Shikha is in class 6. She has 40 pencils. She gave 10 pencils to her brother Raj and 12 Pencils to her sister Ria. She gave remaining pencils to her mother.



- a). What fraction of pencils did she give to Raj?
- b). What fraction of pencils did she give to Ria?
- c). Find the total fraction of pencils Raj and Ria has altogether?

15) Sunita and Neena was reading the same story book every day. Total number of pages is 200. Sunita completed 150 pages whereas Neena completed 100 pages only



- a) What fraction of book was read by Sunita ?
- b) What fraction of book was read by Neena ?
- c) How much fraction more was read by Sunita ?

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**CH- 8 PLAYING WITH CONSTRUCTIONS**

**(D)Choose the correct answer:**

1. What is the measure of each angle in a square?

- (a)  $45^\circ$
- (b)  $60^\circ$
- (c)  $90^\circ$
- (d)  $120^\circ$

2. When drawing a rectangle, which of the following is true about its diagonals?

- (a) They are always parallel.
- (b) They bisect each other at  $90^\circ$ .
- (c) They are equal in length.
- (d) None of these

3. A simple closed curve all of whose points are at the same distance from a fixed point is

- (a) Radius
- (b) Circle
- (c) Square
- (d) Rectangle

4. A maximum of \_\_\_\_\_ diagonals can be drawn in a rectangle,

- (a) Three
- (b) Two
- (c) One
- (d) Infinite

5. Let PQ be a line of 11 cm and M is the mid-point of PQ. What is the distance of M from P?

- (a) 5.5 cm
- (b) 5 cm
- (c) 6 cm
- (d) 7 cm

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(II) ASSERTION AND REASONING QUESTIONS:

6. **Assertion (A)** :A square can be thought of as a special rectangle.

**Reason (R)**: A rectangle with all sides equal becomes a square.

- (a) Both A and R are true and R is the correct explanation of A.
- (b) Both A and R are true but R is not the correct explanation of A.
- (c) A is true but R is false.
- (d) A is false but R is true.

7. **Assertion (A)**: If the radius of a circle is 5 cm, then its diameter is 10 cm.

**Reason (R)**: The radius is the distance from centre of a circle to any point on the circle.

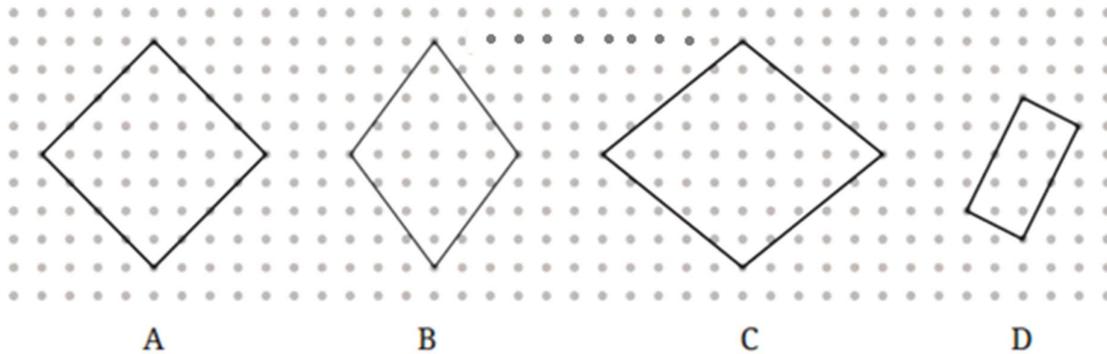
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- (b) Both A and R are true but R is not the correct explanation of A.
- (c) A is true but R is false.
- (d) A is false but R is true.

III. ANSWER THE FOLLOWING QUESTIONS

8. Define circle ,draw a rough diagram and label the parts of it.

9. Construct a circle of diameter 5 cm.

10. Identify if there are any rectangles in this collection. Use measurements if needed.



**Think:** Is it possible to reason out if the sides are equal or not, and if the angles are right or not without using any measuring instruments in the above figure? Can we do this by only looking at the position of corners in the dot grid?

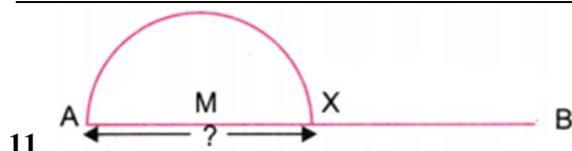
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What radius should be taken in the compass to get this half-circle? What should be the length of AX, if the length of AB is 16cm?

12. Construct a rectangle in which one of the diagonals divides the opposite angles into  $35^\circ$  and  $55^\circ$ . What do you observe about the sides?

13. Construct a rectangle one of whose sides is 5 cm and the diagonal is of length 8 cm.

(IV) CASE STUDY QUESTIONS

14. Rahul after retirement thought to stay in his village's house. After going there he found there was shortage of water, so he thought of constructing a well. He hired some labours and guided them that the well should be 4.5 m in radius. Based on the above information, answer the following questions.

(i) What is the shape of the well?

- (a) Rectangle
- (b) Square
- (c) Circle
- (d) Semi-circle

(ii) What is the diameter of the well?

- (a) 9 m
- (b) 8 m
- (c) 4.5 m
- (d) 5 m

(iii) A small part of the circumference of this well is called

- (a) segment
- (b) radius
- (c) diameter
- (d) arc

(iv) What is the first step of constructing a well?

- (a) Marking arc
- (b) Marking centre point
- (c) Marking side point
- (d) Drawing a line

**CHAPTER -9 SYMMETRY**

**Q.1 CHOOSE THE CORRECT ANSWER**

1..If the smallest angle of rotation of a figure is  $60^\circ$ , then its order of rotational symmetry is:

- a) 4
- b) 5
- c) 6
- d) 8

2. Which of the following figures has both reflection and rotational symmetry?

- a) Circle
- b) Scalene triangle
- c) Parallelogram
- d) Trapezium

3. The line which divides a figure into two mirror halves is called:

- a) Axis of rotation
- b) Line of symmetry
- c) Radius
- d) Diameter

4. A circle has rotational symmetry of order:

- a) 2
- b) 4
- c) Infinite
- d) None

5. Every figure has rotational symmetry of order at least:

- a) 0
- b) 1
- c) 2
- d) 3

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**6.Assertion (A):** The English letter “N” has no line of symmetry.

**Reason (R):** The shape of N cannot be folded into two equal halves along any line.

- (a) Both A and R are true, and R is the correct explanation of A.
- (b) Both A and R are true, but R is not the correct explanation of A.
- (c) A is true, but R is false.
- (d) A is false, and R is also false.

**7. Assertion (A):** A rhombus has 4 lines of symmetry.

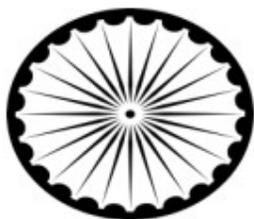
**Reason (R):** All four sides of a rhombus are equal.

- (a) Both A and R are true, and R is the correct explanation of A.
- (b) Both A and R are true, but R is not the correct explanation of A.
- (c) A is true, but R is false.
- (d) A is false, and R is also false.

ANSWER THE FOLLOWING QUESTIONS

**8.** Draw two figures other than a circle and square that have both reflection symmetry and rotational symmetry.

**9.** How many lines of symmetry and angles of symmetry does Ashoka Chakra have?



**10.** Draw the following.

- a. A Triangle with exactly one line of symmetry.
- b. A triangle with no line of symmetry.
- c. A triangle with exactly three lines of symmetry.

**11. How many lines of symmetry do these shapes have?**

- a. A triangle with equal sides and equal angles.
- b. A hexagon with equal sides and equal angles.

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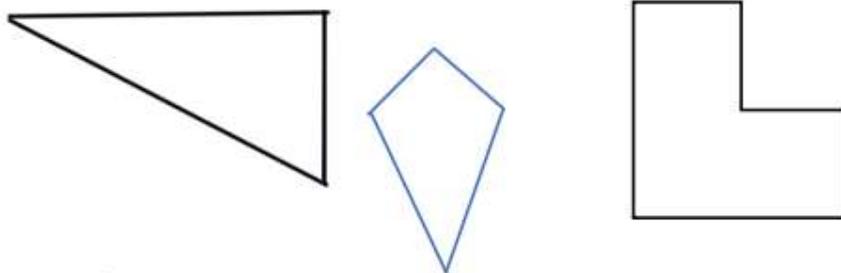
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**12. For each of the following figures, identify the line(s) of symmetry if it exists**



**13. A student is observing a butterfly. One half of its wings is exactly like the other half. She decides to draw a line down the middle to explore its symmetry.**

1. What kind of symmetry does the butterfly show?
2. Explain why the line drawn by the student is called the line of symmetry.

**14. A circular wall clock has numbers 1 to 12 marked. The clock hands rotate around the centre.**

1. Identify the order of rotational symmetry of the clock face.
2. Can the clock have reflection symmetry? Explain.

**CH10 -The Other Side of Zero**

**CHOOSE THE CORRECT ANSWER**

1. Which of the following is not an integer?

- a)  $-15$
- b)  $0$
- c)  $4.5$
- d)  $-3$

2. The inverse (additive inverse) of  $-7$  is:

- a)  $0$
- b)  $7$
- c)  $-7$
- d)  $-1$

3. On a number line, which of the following is true?

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- a)  $-5 < -10$
  - b)  $-10 > -5$
  - c)  $-5 > -10$
  - d)  $-10 = -5$

4. If the temperature at Leh is  $-5^{\circ}\text{C}$  and rises by  $7^{\circ}\text{C}$ , the new temperature is:

- a)  $-12^{\circ}\text{C}$
- b)  $12^{\circ}\text{C}$
- c)  $+2^{\circ}\text{C}$
- d)  $-2^{\circ}\text{C}$

5. The sum of  $(-8) + (-12)$  is:

- a)  $-20$
- b)  $+20$
- c)  $-4$
- d)  $+4$

6. Assertion (A): Zero is neither positive nor negative.

Reason (R): Zero is the reference point on the number line.

- a) Both A and R are true, and R is the correct explanation of A
- b) Both A and R are true, but R is not the correct explanation of A
- c) A is true but R is false
- d) A is false but R is true

7. Assertion (A): Subtracting a negative number is the same as adding its positive.

Reason (R):  $(-7) - (-3) = (-7) + (+3)$ .

- a) Both A and R are true, and R is the correct explanation of A
- b) Both A and R are true, but R is not the correct explanation of A
- c) A is true but R is false
- d) A is false but R is true

**ANSWER THE FOLLOWING QUESTIONS**

8. Evaluate:  $(+7) + (-12)$

9. Evaluate:  $(-15) - (-9)$

10. If the starting floor is  $-3$  and the target floor is  $+4$ , find the movement needed.

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11. Compare using  $<$  or  $>$ :  $-25$  \_\_\_  $-15$

12. Temperature in Srinagar was  $-3^{\circ}\text{C}$  in the morning. It dropped by  $5^{\circ}\text{C}$  at night.

What was the temperature at night?

**Case Study Questions:**

**13. Bela's Building of Fun**

Bela enters the lift at Floor 0. She presses  $+4$  to reach the Book Store, then presses  $-6$ .

- a) Which floor is she on finally?
- b) Write the expression for her movement.
- c) If she wants to come back to Floor 0, what should she press?

**14 Bank Account**

Ravi's bank balance is  $\text{'}+500\text{'}$ . He withdraws  $\text{'}800\text{'}$ , then deposits  $\text{'}400\text{'}$ .

- a) What is his final balance?
- b) Is the balance positive or negative?
- c) How much should he deposit to bring his balance back to zero?

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