

# MATH LOVE INSTITUTE

Madhya Pradesh Board of Secondary Education (MPBSE)

Class 8 Mathematics - Annual Examination 2025-26

Question Paper 5 with Complete Solutions

Based on Latest NCERT Syllabus & MP Board Pattern

Maximum Marks	80
Time Allowed	3 Hours
Class	VIII (Eight)
Subject	Mathematics
Board	MP Board (MPBSE)

## GENERAL INSTRUCTIONS:

1. This question paper contains **28 questions** divided into **Five Sections A, B, C, D and E**.
2. **Section A:** 10 Multiple Choice Questions of 1 mark each (10 marks)
3. **Section B:** 5 Very Short Answer Type questions of 2 marks each (10 marks)
4. **Section C:** 6 Short Answer Type questions of 3 marks each (18 marks)
5. **Section D:** 4 Long Answer Type questions of 5 marks each (20 marks)
6. **Section E:** 3 Case Study Based questions of 4 marks each (12 marks)
7. All questions are **compulsory**.
8. Draw neat diagrams wherever required.
9. Use of calculators is **NOT** permitted.

## SECTION A - MULTIPLE CHOICE QUESTIONS (1 × 10 = 10 Marks)

- Q1.** Which of the following is a rational number between  $-1/2$  and  $-1/3$ ? [1]
- (a)  $-2/5$
  - (b)  $-1/4$
  - (c)  $-1/6$
  - (d)  $-3/4$
- Q2.** If  $8x - 3 = 29$ , then the value of  $x$  is: [1]
- (a) 2
  - (b) 3
  - (c) 4
  - (d) 5
- Q3.** The sum of interior angles of an octagon is: [1]
- (a)  $720^\circ$
  - (b)  $900^\circ$
  - (c)  $1080^\circ$
  - (d)  $1260^\circ$
- Q4.** The value of  $\sqrt{0.0016}$  is: [1]
- (a) 0.004
  - (b) 0.04
  - (c) 0.4
  - (d) 4
- Q5.** The cube root of 729 is: [1]
- (a) 7
  - (b) 8
  - (c) 9
  - (d) 10
- Q6.** A shopkeeper marks an article 40% above the cost price and gives a discount of 10%. His profit percentage is: [1]
- (a) 20%
  - (b) 24%
  - (c) 26%
  - (d) 30%

- Q7.** The value of  $(x - 1/x)^2$  equals: [1]
- (a)  $x^2 - 1/x^2 - 2$
  - (b)  $x^2 + 1/x^2 - 2$
  - (c)  $x^2 - 1/x^2 + 2$
  - (d)  $x^2 + 1/x^2 + 2$

- Q8.** The area of a trapezium with parallel sides 15 cm and 9 cm and height 6 cm is: [1]
- (a)  $54 \text{ cm}^2$
  - (b)  $72 \text{ cm}^2$
  - (c)  $90 \text{ cm}^2$
  - (d)  $144 \text{ cm}^2$

- Q9.** The value of  $2^{-3}$  is: [1]
- (a) -8
  - (b)  $-1/8$
  - (c)  $1/8$
  - (d) 8

- Q10.** If  $x$  varies directly as  $y$  and  $x = 20$  when  $y = 5$ , then when  $x = 36$ ,  $y$  equals: [1]
- (a) 7
  - (b) 8
  - (c) 9
  - (d) 10

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**SECTION B - VERY SHORT ANSWER TYPE QUESTIONS (2 × 5 = 10 Marks)**

- Q11.** Find five rational numbers between 1 and 2. [2]
- Q12.** Solve:  $4(x - 3) = 2(x + 5)$  [2]
- Q13.** Find the square root of 6084 by prime factorization method. [2]
- Q14.** Find the compound interest on ₹5,000 for 2 years at 10% per annum compounded annually. [2]
- Q15.** Factorise:  $3x^2 - 13x + 10$  [2]

**SECTION C - SHORT ANSWER TYPE QUESTIONS (3 × 6 = 18 Marks)**

- Q16.** Prove that the opposite sides of a parallelogram are equal. [3]
- Q17.** Solve:  $(5x - 1)/2 + (x - 2)/3 = 6$  [3]
- Q18.** The weights (in kg) of 10 students are: 45, 52, 48, 50, 45, 48, 52, 48, 50, 52. Find the median. [3]
- Q19.** A rhombus has diagonals of length 24 cm and 18 cm. Find its area and perimeter. [3]
- Q20.** Simplify using the identity  $(a + b)(a - b) = a^2 - b^2$ :  $(7.5)^2 - (2.5)^2$  [3]
- Q21.** The total surface area of a cuboid is  $376 \text{ cm}^2$ . Its length is 10 cm and breadth is 8 cm. Find its height. [3]

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**SECTION D - LONG ANSWER TYPE QUESTIONS (5 × 4 = 20 Marks)**

- Q22.** Verify the identity  $(a - b)^3 = a^3 - b^3 - 3ab(a - b)$  by taking  $a = 5$  and  $b = 2$ . Also find the value of  $(98)^3$  using an appropriate identity. [5]
- Q23.** A sum of ₹20,000 is invested for 2 years. Calculate: [5]
- (i) The amount at 12% per annum simple interest
  - (ii) The amount at 12% per annum compound interest (compounded annually)
  - (iii) The difference between compound interest and simple interest
- Q24.** The perimeter of a rectangular field is 340 m. If its length is 100 m, find its breadth. [5] Also find the cost of leveling the field at ₹8 per square meter.
- OR**
- A circular path of width 3 m is constructed outside a circular park of radius 28 m. Find the area of the path. (Take  $\pi = 22/7$ )
- Q25.** A cylindrical water tank has a diameter of 2.1 m and height of 4 m. Find how many [5] liters of water it can hold. ( $1 \text{ m}^3 = 1000$  liters,  $\pi = 22/7$ )

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**SECTION E - CASE STUDY BASED QUESTIONS (4 × 3 = 12 Marks)**

**Q26.**

**[4]**

**CASE STUDY 1: Sports Ground**

A rectangular sports ground is 120 m long and 80 m wide. A running track of uniform width 5 m runs around it on the outside.

Based on the above information, answer the following:

- (i) Find the area of the sports ground. [1 mark]**
- (ii) Find the total area including the track. [2 marks]**
- (iii) Find the area of the track only. [1 mark]**

**Q27.**

**[4]**

**CASE STUDY 2: Two Investments**

Rohan invested ₹50,000 in Bank A offering 7% simple interest per annum. His brother Sohan invested the same amount in Bank B offering 7% compound interest per annum (compounded annually). Both invested for 2 years.

Based on the above information, answer the following:

- (i) Calculate Rohan's total amount after 2 years. [1 mark]**
- (ii) Calculate Sohan's total amount after 2 years. [2 marks]**
- (iii) Who received more and by how much? [1 mark]**

**CASE STUDY 3: Electricity Bills**

The monthly electricity bills (in ₹) of 12 houses in a locality are:  
850, 920, 780, 900, 850, 1050, 780, 920, 850, 900, 1050, 850

Based on the above information, answer the following:

- (i) Find the highest and lowest bills. [1 mark]
- (ii) Calculate the range. [1 mark]
- (iii) Find the mode of the bills. [2 marks]

 **END OF QUESTION PAPER** 

**Total Marks: 80**

Section A: 10 marks | Section B: 10 marks | Section C: 18 marks

Section D: 20 marks | Section E: 12 marks

**Time: 3 Hours**

 **COMPLETE DETAILED SOLUTIONS WITH STEP-BY-STEP EXPLANATIONS**

**SECTION A - SOLUTIONS (1 × 10 = 10 Marks)**

**Q1. Answer: (a)  $-\frac{2}{5}$**

**Solution:**

$$-\frac{1}{2} = -0.5 \text{ and } -\frac{1}{3} = -0.333\dots$$

We need a number between  $-0.5$  and  $-0.333$

$$-\frac{2}{5} = -0.4 \text{ (lies between } -0.5 \text{ and } -0.333) \checkmark$$

**Q2. Answer: (c) 4**

**Solution:**

$$8x - 3 = 29$$

$$8x = 29 + 3$$

$$8x = 32$$

$$x = \frac{32}{8}$$

$$x = 4$$

**Q3. Answer: (c)  $1080^\circ$**

**Solution:**

$$\text{Sum of interior angles of } n\text{-sided polygon} = (n - 2) \times 180^\circ$$

For octagon,  $n = 8$

$$= (8 - 2) \times 180^\circ$$

$$= 6 \times 180^\circ$$

$$= 1080^\circ$$

**Q4. Answer: (b) 0.04**

**Solution:**

$$\begin{aligned}\sqrt{0.0016} &= \sqrt{(16/10000)} \\ &= 4/100 \\ &= 0.04\end{aligned}$$

**Q5. Answer: (c) 9**

**Solution:**

$$\begin{aligned}\sqrt[3]{729} &= \sqrt[3]{(9 \times 9 \times 9)} \\ &= 9\end{aligned}$$

**Q6. Answer: (c) 26%**

**Solution:**

$$\begin{aligned}\text{Let CP} &= ₹100 \\ \text{MP} &= 100 + 40\% \text{ of } 100 = ₹140 \\ \text{Discount} &= 10\% \text{ of } 140 = ₹14 \\ \text{SP} &= 140 - 14 = ₹126 \\ \text{Profit} &= 126 - 100 = ₹26 \\ \text{Profit \%} &= 26\%\end{aligned}$$

**Q7. Answer: (b)  $x^2 + 1/x^2 - 2$**

**Solution:**

$$\begin{aligned}(x - 1/x)^2 &= x^2 + (1/x)^2 - 2(x)(1/x) \\ &= x^2 + 1/x^2 - 2\end{aligned}$$

**Q8. Answer: (b) 72 cm<sup>2</sup>**

**Solution:**

$$\begin{aligned}\text{Area} &= (1/2) \times (\text{sum of parallel sides}) \times \text{height} \\ &= (1/2) \times (15 + 9) \times 6\end{aligned}$$

$$= (1/2) \times 24 \times 6$$
$$= 72 \text{ cm}^2$$

**Q9. Answer: (c) 1/8**

**Solution:**

$$2^{-3} = 1/2^3$$
$$= 1/8$$

**Q10. Answer: (c) 9**

**Solution:**

In direct proportion:  $x_1/y_1 = x_2/y_2$

$$20/5 = 36/y$$

$$4 = 36/y$$

$$y = 36/4$$

$$y = 9$$

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## SECTION B - SOLUTIONS (2 × 5 = 10 Marks)

**Q11. Solution:**

**Marking Scheme:** 1 mark for method + 1 mark for numbers

Five rational numbers between 1 and 2:

Method: Multiply by 6

$$1 = 6/6 \text{ and } 2 = 12/6$$

Numbers between: 7/6, 8/6, 9/6, 10/6, 11/6

**Answer: 7/6, 4/3, 3/2, 5/3, 11/6**

(or 1.17, 1.33, 1.5, 1.67, 1.83)

**Q12. Solution:**

**Marking Scheme:** 1 mark for steps + 1 mark for answer

$$4(x - 3) = 2(x + 5)$$

$$4x - 12 = 2x + 10$$

$$4x - 2x = 10 + 12$$

$$2x = 22$$

$$x = 11$$

**Answer: x = 11**

**Q13. Solution:**

**Marking Scheme:** 1 mark for factorization + 1 mark for root

Prime factorization of 6084:

$$6084 = 2 \times 3042$$

$$= 2 \times 2 \times 1521$$

$$= 2^2 \times 39^2$$

$$= (2 \times 39)^2$$

$$= 78^2$$

$$\sqrt{6084} = 78$$

**Answer: 78**

**Q14. Solution:**

**Marking Scheme:** 1 mark for formula + 1 mark for CI

$P = ₹5,000, R = 10\%, T = 2 \text{ years}$

$$\begin{aligned} A &= P(1 + R/100)^2 \\ &= 5000(1 + 10/100)^2 \\ &= 5000(1.1)^2 \\ &= 5000 \times 1.21 \\ &= ₹6,050 \end{aligned}$$

$$\begin{aligned} CI &= A - P \\ &= 6050 - 5000 \\ &= ₹1,050 \end{aligned}$$

**Answer: ₹1,050**

**Q15. Solution:**

**Marking Scheme:** 1 mark for splitting + 1 mark for factors

$$3x^2 - 13x + 10$$

Product =  $3 \times 10 = 30$ , Sum =  $-13$

Numbers:  $-3$  and  $-10$  ( $-3 + (-10) = -13, -3 \times -10 = 30$ )

$$\begin{aligned} &= 3x^2 - 3x - 10x + 10 \\ &= 3x(x - 1) - 10(x - 1) \\ &= (x - 1)(3x - 10) \end{aligned}$$

**Answer:  $(x - 1)(3x - 10)$**

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## **SECTION C - SOLUTIONS ( $3 \times 6 = 18$ Marks)**

**Q16. Solution:**

**Marking Scheme:** 1 mark construction + 1 mark triangles + 1 mark proof

**Given:** ABCD is a parallelogram

**To Prove:** AB = CD and AD = BC

**Construction:** Join diagonal AC

**Proof:**

In  $\triangle ABC$  and  $\triangle CDA$ :

AC = AC (common)

$\angle BAC = \angle DCA$  (alternate angles, AB  $\parallel$  DC)

$\angle BCA = \angle DAC$  (alternate angles, AD  $\parallel$  BC)

By ASA congruence:  $\triangle ABC \cong \triangle CDA$

Therefore: AB = CD and BC = DA (CPCT)

**Hence, opposite sides are equal. Proved.**

**Q17. Solution:**

**Marking Scheme:** 1 mark LCM + 1 mark simplification + 1 mark answer

$$(5x - 1)/2 + (x - 2)/3 = 6$$

LCM of 2 and 3 = 6

Multiplying throughout by 6:

$$3(5x - 1) + 2(x - 2) = 36$$

$$15x - 3 + 2x - 4 = 36$$

$$17x - 7 = 36$$

$$17x = 43$$

$$x = 43/17$$

**Answer:  $x = 43/17$  or  $2\frac{7}{17}$**

### Q18. Solution:

**Marking Scheme:** 1 mark arranging + 1 mark finding median + 1 mark answer

Data: 45, 52, 48, 50, 45, 48, 52, 48, 50, 52

Arranging: 45, 45, 48, 48, 48, 50, 50, 52, 52, 52

Number of terms (n) = 10 (even)

Median = Average of 5th and 6th terms

$$= (48 + 50)/2$$

$$= 98/2$$

$$= 49 \text{ kg}$$

**Answer: 49 kg**

### Q19. Solution:

**Marking Scheme:** 1.5 marks area + 1.5 marks perimeter

Diagonals:  $d_1 = 24 \text{ cm}$ ,  $d_2 = 18 \text{ cm}$

**Area:**

$$\text{Area} = (1/2) \times d_1 \times d_2$$

$$= (1/2) \times 24 \times 18$$

$$= 216 \text{ cm}^2$$

**Perimeter:**

Using Pythagoras theorem:

$$\text{Side}^2 = (d_1/2)^2 + (d_2/2)^2$$

$$= 12^2 + 9^2$$

$$= 144 + 81$$

$$= 225$$

$$\text{Side} = 15 \text{ cm}$$

$$\text{Perimeter} = 4 \times \text{side} = 4 \times 15 = 60 \text{ cm}$$

**Answer: Area = 216 cm<sup>2</sup>, Perimeter = 60 cm**

**Q20. Solution:**

**Marking Scheme:** 1 mark identity + 1 mark substitution + 1 mark calculation

$$(7.5)^2 - (2.5)^2$$

Using  $a^2 - b^2 = (a + b)(a - b)$

where  $a = 7.5$ ,  $b = 2.5$

$$= (7.5 + 2.5)(7.5 - 2.5)$$

$$= 10 \times 5$$

$$= 50$$

**Answer: 50**

**Q21. Solution:**

**Marking Scheme:** 1 mark formula + 1 mark substitution + 1 mark solving

$$\text{TSA} = 376 \text{ cm}^2, l = 10 \text{ cm}, b = 8 \text{ cm}$$

$$\text{TSA of cuboid} = 2(lb + bh + lh)$$

$$376 = 2(10 \times 8 + 8 \times h + 10 \times h)$$

$$376 = 2(80 + 8h + 10h)$$

$$376 = 2(80 + 18h)$$

$$188 = 80 + 18h$$

$$18h = 108$$

$$h = 6 \text{ cm}$$

**Answer: 6 cm**

## SECTION D - SOLUTIONS ( $5 \times 4 = 20$ Marks)

### Q22. Solution:

**Marking Scheme:** 2 marks verification + 3 marks application

**Verification with  $a = 5$ ,  $b = 2$ :**

$$\text{LHS: } (a - b)^3 = (5 - 2)^3 = 3^3 = 27$$

$$\begin{aligned}\text{RHS: } & a^3 - b^3 - 3ab(a - b) \\ &= 5^3 - 2^3 - 3(5)(2)(5 - 2) \\ &= 125 - 8 - 30(3) \\ &= 125 - 8 - 90 \\ &= 27\end{aligned}$$

$$\text{LHS} = \text{RHS} \checkmark$$

**Identity verified**

**Finding  $(98)^3$ :**

$$(98)^3 = (100 - 2)^3$$

Using  $(a - b)^3 = a^3 - b^3 - 3ab(a - b)$   
where  $a = 100$ ,  $b = 2$

$$\begin{aligned}&= 100^3 - 2^3 - 3(100)(2)(100 - 2) \\ &= 1000000 - 8 - 600(98) \\ &= 1000000 - 8 - 58800 \\ &= 941192\end{aligned}$$

**Answer:  $(98)^3 = 941192$**

### Q23. Solution:

**Marking Scheme:** 1.5 marks SI + 2.5 marks CI + 1 mark difference

$P = ₹20,000$ ,  $R = 12\%$ ,  $T = 2$  years

**(i) Amount with Simple Interest:**

$$SI = (P \times R \times T)/100$$

$$= (20000 \times 12 \times 2)/100$$

$$= ₹4,800$$

$$\text{Amount} = P + SI = 20000 + 4800 = ₹24,800$$

**(ii) Amount with Compound Interest:**

$$A = P(1 + R/100)^2$$

$$= 20000(1.12)^2$$

$$= 20000 \times 1.2544$$

$$= ₹25,088$$

$$CI = 25088 - 20000 = ₹5,088$$

**(iii) Difference:**

$$CI - SI = 5088 - 4800 = ₹288$$

**Answer: (i) ₹24,800 (ii) ₹25,088 (iii) ₹288**

**Q24. Solution:**

**Marking Scheme:** 2 marks breadth + 2 marks area + 1 mark cost

**Rectangle:**

Perimeter = 340 m, Length = 100 m

$$\text{Perimeter} = 2(l + b)$$

$$340 = 2(100 + b)$$

$$170 = 100 + b$$

$$b = 70 \text{ m}$$

$$\text{Area} = l \times b = 100 \times 70 = 7000 \text{ m}^2$$

Cost of leveling = Area  $\times$  Rate

$$= 7000 \times 8$$

$$= ₹56,000$$

**Answer: Breadth = 70 m, Cost = ₹56,000**

**OR**

**Circular Path:**

Inner radius = 28 m

Path width = 3 m

Outer radius =  $28 + 3 = 31$  m

Area of path =  $\pi(R^2 - r^2)$

$$= (22/7)(31^2 - 28^2)$$

$$= (22/7)(961 - 784)$$

$$= (22/7) \times 177$$

$$= 22 \times 25.29$$

$$= 556.3 \text{ m}^2 \text{ (approx)}$$

**OR using  $(a^2 - b^2) = (a+b)(a-b)$ :**

$$= (22/7) \times (31 + 28)(31 - 28)$$

$$= (22/7) \times 59 \times 3$$

$$= (22 \times 59 \times 3)/7$$

$$= 3894/7$$

$$= 556.29 \text{ m}^2$$

**Answer: 556.29 m<sup>2</sup> or 556.3 m<sup>2</sup>**

**Q25. Solution:**

**Marking Scheme:** 2 marks volume in m<sup>3</sup> + 3 marks conversion to liters

Diameter = 2.1 m, so radius = 1.05 m

Height = 4 m

$$\pi = 22/7$$

**Volume in m<sup>3</sup>:**

$$\begin{aligned}V &= \pi r^2 h \\&= (22/7) \times 1.05 \times 1.05 \times 4 \\&= (22/7) \times 1.1025 \times 4 \\&= (22/7) \times 4.41 \\&= 97.02/7 \\&= 13.86 \text{ m}^3\end{aligned}$$

**Volume in liters:**

$$\begin{aligned}1 \text{ m}^3 &= 1000 \text{ liters} \\ \text{Volume} &= 13.86 \times 1000 \\ &= 13,860 \text{ liters}\end{aligned}$$

**Answer: 13,860 liters**

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## SECTION E - SOLUTIONS (4 × 3 = 12 Marks)

**Q26. Solution: CASE STUDY 1 - Sports Ground**

**Marking Scheme:** 1 + 2 + 1 = 4 marks

**(i) Area of sports ground:**

$$\begin{aligned}\text{Length} &= 120 \text{ m, Width} = 80 \text{ m} \\ \text{Area} &= 120 \times 80 = 9600 \text{ m}^2\end{aligned}$$

**Answer: 9600 m<sup>2</sup>**

**(ii) Total area including track:**

$$\begin{aligned}\text{Track width} &= 5 \text{ m on all sides (outside)} \\ \text{New length} &= 120 + 5 + 5 = 130 \text{ m} \\ \text{New width} &= 80 + 5 + 5 = 90 \text{ m} \\ \text{Total area} &= 130 \times 90 = 11,700 \text{ m}^2\end{aligned}$$

**Answer: 11,700 m<sup>2</sup>**

**(iii) Area of track only:**

$$\begin{aligned}\text{Track area} &= \text{Total area} - \text{Ground area} \\ &= 11700 - 9600 \\ &= 2100 \text{ m}^2\end{aligned}$$

**Answer: 2100 m<sup>2</sup>**

### **Q27. Solution: CASE STUDY 2 - Two Investments**

**Marking Scheme:** 1 + 2 + 1 = 4 marks

$$P = ₹50,000, R = 7\%, T = 2 \text{ years}$$

**(i) Rohan's amount (SI):**

$$SI = (50000 \times 7 \times 2)/100 = ₹7,000$$

$$\text{Amount} = P + SI = 50000 + 7000 = ₹57,000$$

**Answer: ₹57,000**

**(ii) Sohan's amount (CI):**

$$A = P(1 + R/100)^2$$

$$= 50000(1.07)^2$$

$$= 50000 \times 1.1449$$

$$= ₹57,245$$

**Answer: ₹57,245**

**(iii) Comparison:**

Sohan received more

$$\text{Difference} = 57245 - 57000 = ₹245$$

**Answer: Sohan received ₹245 more**

### **Q28. Solution: CASE STUDY 3 - Electricity Bills**

**Marking Scheme:** 1 + 1 + 2 = 4 marks

Data: 850, 920, 780, 900, 850, 1050, 780, 920, 850, 900, 1050, 850

**(i) Highest and lowest:**

Highest bill = ₹1,050

Lowest bill = ₹780

**Answer: Highest = ₹1,050, Lowest = ₹780**

**(ii) Range:**

Range = Highest - Lowest

= 1050 - 780

= ₹270

**Answer: ₹270**

**(iii) Mode:**

Arranging: 780, 780, 850, 850, 850, 850, 900, 900, 920, 920, 1050, 1050

Frequency:

780 → 2 times

850 → 4 times (highest frequency)

900 → 2 times

920 → 2 times

1050 → 2 times

**Mode = ₹850**

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 **END OF COMPLETE SOLUTIONS** 

**All 28 questions solved with detailed step-by-step explanations**

 **100% NCERT Class 8 Syllabus Compliant:**

- Rational Numbers (Between numbers, operations)
  - Linear Equations (Different methods)
- Understanding Quadrilaterals (Octagon angles, Parallelogram)
  - Squares & Square Roots ( $\sqrt{0.0016}$ ,  $\sqrt{6084}$ )
    - Cubes & Cube Roots ( $\sqrt[3]{729}$ )
- Comparing Quantities (Successive discount, SI/CI)
- Algebraic Expressions & Identities (Special identities)

- Mensuration (Rhombus, Trapezium, Circle with path)
- 3D Shapes: Cuboid & Cylinder (Class 8 only)
  - Exponents ( $2^{-3}$ , Negative powers)
    - Direct Proportion
  - Factorisation ( $3x^2 - 13x + 10$ )
- Data Handling (Median, Mode, Range)

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**100% NCERT Class 8 Syllabus Verified**

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