

Full Practice Exam — Set 2

Mathematics · Class 5 · Full Syllabus Practice Exam

TIME 60 minutes	QUESTIONS 50	TOTAL MARKS 60	MAX. SCORE ___ / 60
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Name: _____ Class/Sec: _____ Date: _____

INSTRUCTIONS

- There are **50 questions** in this paper. All questions are compulsory.
- Each question has four options (A), (B), (C) and (D). Exactly **one** option is correct.
- Questions 1–45 carry **1 mark** each. Questions 46–50 (Achievers Section) carry **3 marks** each.
- There is no negative marking. Use of a calculator is **not** allowed.
- Fill in your answers on the answer sheet. Rough work may be done at the side of each page.

Section 1 — Logical Reasoning

Q1–Q10 · 1 mark each

- What comes next in the series? 5, 10, 20, 40, ____
 (A) 60 (B) 70
 (C) 80 (D) 90
- Find the **odd one out**: 9, 16, 25, 30
 (A) 9 (B) 16
 (C) 25 (D) 30
- What comes next in the series? BY, DW, FU, ____
 (A) HS (B) GT
 (C) HT (D) GS
- In a certain code, CHAIR is written as 3-8-1-9-18. How is TABLE written in the same code?
 (A) 20-2-1-12-5 (B) 20-1-2-11-5
 (C) 19-1-2-12-5 (D) 20-1-2-12-5
- Pointing to a man in a photograph, Meena said, 'His mother is the only daughter of my mother.' How is the man related to Meena?
 (A) Son (B) Nephew
 (C) Brother (D) Father
- In a queue of 30 children, Aman is 11th from the left end. What is his position from the right end?
 (A) 19th (B) 20th
 (C) 21st (D) 18th
- A boy walks 9 km west, then 12 km north. How far is he from his starting point?
 (A) 25 km (B) 21 km
 (C) 3 km (D) 15 km

8. The clock face below shows the position of its hour and minute hands. What is the angle between the two hands?

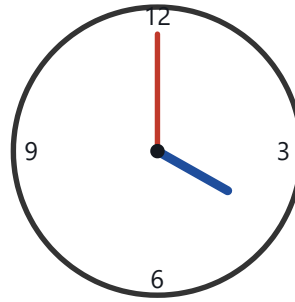


Fig. 8.1 — Clock hands at a certain time

- (A) 120°
(B) 110°
(C) 90°
(D) 150°
9. $5 : 125 :: 4 : \underline{\hspace{1cm}}$
(A) 64
(B) 16
(C) 48
(D) 32
10. If 1 March 2026 is a Sunday, what day of the week is 22 March 2026?
(A) Monday
(B) Sunday
(C) Saturday
(D) Tuesday

Section 2 — Mathematical Reasoning

Q11–Q28 · 1 mark each

11. What is the place value of 7 in 3,74,829?
(A) 7,000
(B) 700
(C) 7,00,000
(D) 70,000
12. Which of these numbers is the **smallest**?
(A) 61,999
(B) 62,354
(C) 62,345
(D) 62,300
13. How many factors does 48 have?
(A) 8
(B) 9
(C) 10
(D) 12
14. The LCM of 12, 18 and 24 is _____.
(A) 36
(B) 48
(C) 72
(D) 144
15. $\frac{7}{8} - \frac{3}{5} = \underline{\hspace{1cm}}$
(A) $\frac{4}{3}$
(B) $\frac{11}{40}$
(C) $\frac{35}{40}$
(D) $\frac{4}{40}$

16. The decimal 0.625 written as a fraction in simplest form is _____.

(A) $\frac{13}{20}$

(B) $\frac{625}{100}$

(C) $\frac{5}{8}$

(D) $\frac{5}{9}$

17. 65% of 240 is _____.

(A) 144

(B) 150

(C) 156

(D) 160

18. If 8 notebooks cost ₹216, then 13 notebooks will cost _____.

(A) ₹338

(B) ₹324

(C) ₹364

(D) ₹351

19. An angle measuring 42° is a/an _____ angle.

(A) Acute

(B) Obtuse

(C) Right

(D) Reflex

20. The sum of all four angles of any quadrilateral is _____.

(A) 180°

(B) 360°

(C) 270°

(D) 400°

21. The perimeter of a rectangle 17 cm long and 11 cm wide is _____.

(A) 187 cm

(B) 28 cm

(C) 56 cm

(D) 62 cm

22. What is the area of the right triangle shown below, with the base and height marked?

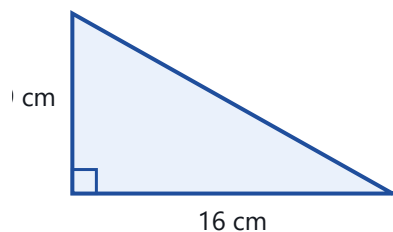


Fig. 22.1 — Right triangle with base and height marked

(A) 144 cm^2

(B) 36 cm^2

(C) 25 cm^2

(D) 72 cm^2

23. How many lines of symmetry does an equilateral triangle have?

(A) 3

(B) 2

(C) 1

(D) Infinitely many

24. Which of these is a prime number?

(A) 87

(B) 91

(C) 93

(D) 97

25. The average of 15, 22, 29, 34 and 40 is _____.

(A) 26

(B) 28

(C) 30

(D) 32

26. 2 kg 350 g expressed in grams is _____.
 (A) 2,035 g (B) 2,350 g
 (C) 2,530 g (D) 2,305 g
27. The volume of a cuboid measuring 8 cm by 5 cm by 4 cm is _____.
 (A) 37 cm³ (B) 17 cm³
 (C) 160 cm³ (D) 320 cm³
28. $\frac{3}{4} \times \frac{2}{9} =$ _____.
 (A) $\frac{1}{3}$ (B) $\frac{5}{36}$
 (C) $\frac{2}{13}$ (D) $\frac{1}{6}$

Section 3 — Everyday Mathematics

Q29–Q45 · 1 mark each

29. A toy costs ₹235. Karan buys 3 such toys and pays with a ₹1,000 note. How much change does he get?
 (A) ₹295 (B) ₹765
 (C) ₹305 (D) ₹235
30. A train journey starts at 9:20 a.m. and ends at 12:05 p.m. How long is the journey?
 (A) 3 hours 15 minutes (B) 2 hours 45 minutes
 (C) 2 hours 35 minutes (D) 3 hours 45 minutes
31. A ribbon is 8 m 25 cm long. A piece 3 m 60 cm long is cut off. What length of ribbon is left?
 (A) 5 m 35 cm (B) 4 m 75 cm
 (C) 4 m 65 cm (D) 4 m 35 cm
32. One sack of wheat weighs 42 kg. What is the total weight of 9 such sacks?
 (A) 368 kg (B) 408 kg
 (C) 388 kg (D) 378 kg
33. A stadium has 32 rows with 48 seats in each row. How many seats are there in all?
 (A) 1,536 (B) 1,486
 (C) 1,586 (D) 1,636
34. 2,208 oranges are packed into crates of 24 oranges each. How many crates are needed?
 (A) 82 (B) 92
 (C) 102 (D) 112
35. In a library of 120 books, $\frac{2}{5}$ are story books. How many books are **not** story books?
 (A) 48 (B) 60
 (C) 72 (D) 80
36. A rectangular field is 60 m long and 35 m wide. What is the cost of fencing it all round at ₹25 per metre?
 (A) ₹4,250 (B) ₹4,750
 (C) ₹5,250 (D) ₹3,750

37. The bar graph shows the number of hours spent reading in a week by four friends. How many **more** hours did Diya read than Karan?

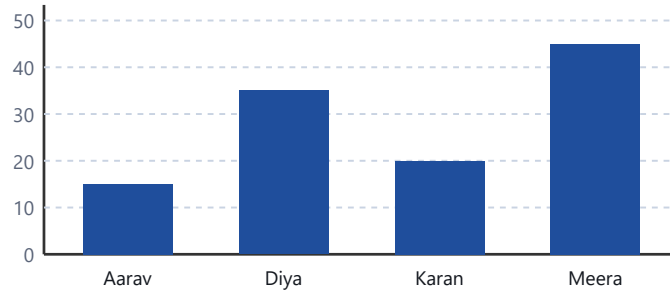


Fig. 37.1 — Hours spent reading in a week

- (A) 10 (B) 15
(C) 20 (D) 25
38. A warehouse had 7,200 boxes. It dispatched 2,468 boxes in the morning and 3,155 boxes in the afternoon. How many boxes are left?
(A) 1,487 (B) 1,677
(C) 1,577 (D) 1,367
39. A runner covers 2.4 km in 8 minutes. What is his speed in metres per minute?
(A) 250 m/min (B) 2,400 m/min
(C) 320 m/min (D) 300 m/min
40. The cost of 4.5 kg of rice is ₹216. What is the cost of 1 kg?
(A) ₹48 (B) ₹46
(C) ₹52 (D) ₹54
41. 6 painters can paint a fence in 20 days. How long would 8 painters of the same ability take?
(A) 12 days (B) 15 days
(C) 18 days (D) 24 days
42. The angles of a triangle are in the ratio 3 : 4 : 5. The smallest angle is _____.
(A) 36° (B) 40°
(C) 45° (D) 60°
43. A ladder 17 m long rests against a wall with its foot 8 m from the base of the wall. How high up the wall does the ladder reach?
(A) 9 m (B) 12 m
(C) 19 m (D) 15 m
44. Which sign makes this true? $\frac{5}{9} \square \frac{5}{7}$
(A) < (B) >
(C) = (D) ×
45. A tank is $\frac{2}{5}$ full. It needs 300 litres more to become $\frac{4}{5}$ full. What is its total capacity?
(A) 600 litres (B) 750 litres
(C) 700 litres (D) 900 litres

46. Consider the following statements.

- (i) The product of two even numbers is always even.
- (ii) If two numbers are different, their HCF is always smaller than their LCM.
- (iii) A number divisible by both 4 and 5 is always divisible by 9.

Which of the statements is/are correct?

- (A) (i) and (ii) only
- (B) (i) and (iii) only
- (C) (ii) and (iii) only
- (D) All three

47. A trader bought 25 packets of biscuits with 12 biscuits in each packet, at ₹8 per biscuit. He sold all the biscuits for ₹3,000. How much profit did he make?

- (A) ₹400
- (B) ₹600 loss
- (C) ₹600
- (D) ₹840

48. A rectangular lawn 30 m long and 20 m wide has a path 2 m wide running all around it on the **outside**. What is the area of the path?

- (A) 116 m²
- (B) 200 m²
- (C) 816 m²
- (D) 216 m²

49. Meera spent $\frac{2}{5}$ of her salary on rent and $\frac{1}{4}$ of the **remainder** on groceries. She was left with ₹2,700. What was her salary?

- (A) ₹6,000
- (B) ₹5,400
- (C) ₹4,800
- (D) ₹7,200

50. Match each shape in Column I with its number of sides in Column II.

Column I	Column II
(P) Pentagon	(1) 6 sides
(Q) Hexagon	(2) 5 sides
(R) Octagon	(3) 8 sides
(S) Heptagon	(4) 7 sides

Table 50.1 — Regular polygons and their number of sides

- (A) P-1, Q-2, R-4, S-3
- (B) P-2, Q-1, R-3, S-4
- (C) P-2, Q-1, R-4, S-3
- (D) P-3, Q-1, R-2, S-4

Answer Key

1	C	2	D	3	A	4	D	5	A
6	B	7	D	8	A	9	A	10	B
11	D	12	A	13	C	14	C	15	B
16	C	17	C	18	D	19	A	20	B
21	C	22	D	23	A	24	D	25	B
26	B	27	C	28	D	29	A	30	B
31	C	32	D	33	A	34	B	35	C
36	B	37	B	38	C	39	D	40	A
41	B	42	C	43	D	44	A	45	B
46	A	47	C	48	D	49	A	50	B

Solutions

1. Answer: (C) 80

Each number is **doubled** to get the next: 5, 10, 20, 40, and $40 \times 2 = \mathbf{80}$.

2. Answer: (D) 30

$9 = 3^2$, $16 = 4^2$ and $25 = 5^2$ — each is a number multiplied by itself. **30** is not a perfect square, so it is the odd one out.

3. Answer: (A) HS

The first letter moves forward by two places each time — B, D, F, **H** — while the second letter moves backward by two places each time — Y, W, U, **S**. So the next pair is **HS**.

4. Answer: (D) 20-1-2-12-5

Each letter is replaced by its position in the alphabet.

T=20, A=1, B=2, L=12, E=5, giving **20-1-2-12-5**.

5. Answer: (A) Son

The only daughter of Meena's own mother must be Meena herself. So the man's mother is Meena, which makes the man Meena's **son**.

6. Answer: (B) 20th

Position from the right = total – position from the left + 1

= $30 - 11 + 1 = \mathbf{20th}$.

7. Answer: (D) 15 km

His two paths meet at a right angle, forming a right-angled triangle.

Distance = $\sqrt{9^2 + 12^2} = \sqrt{81 + 144} = \sqrt{225} = \mathbf{15 \text{ km}}$.

8. Answer: (A) 120°

The minute hand points straight up to 12 and the hour hand points exactly to 4. Each hour mark is 30° apart, so the angle is $4 \times 30^\circ = \mathbf{120^\circ}$.

9. Answer: (A) 64

The second number is the first multiplied by itself twice more: $5 \times 5 \times 5 = 125$.

So $4 \times 4 \times 4 = \mathbf{64}$.

10. Answer: (B) Sunday

22 March is 21 days after 1 March, and $21 = 3 \times 7$, exactly 3 weeks. So the day of the week repeats: **Sunday**.

11. Answer: (D) 70,000

The digit 7 sits in the **ten thousands** place, so its place value is $7 \times 10,000 = \mathbf{70,000}$.

12. Answer: (A) 61,999

All four numbers have five digits. Three of them begin with 62, but **61,999** begins with 61, which is smaller, so it is the smallest number.

13. Answer: (C) 10

The factors are 1, 2, 3, 4, 6, 8, 12, 16, 24 and 48 — that is **10** factors.

14. Answer: (C) 72

$12 = 2^2 \times 3$, $18 = 2 \times 3^2$, $24 = 2^3 \times 3$.

LCM = $2^3 \times 3^2 = \mathbf{72}$.

15. Answer: (B) $\frac{11}{40}$

The LCM of 8 and 5 is 40.

$\frac{7}{8} = \frac{35}{40}$ and $\frac{3}{5} = \frac{24}{40}$.

Difference = $\frac{35}{40} - \frac{24}{40} = \mathbf{\frac{11}{40}}$.

16. Answer: (C) $\frac{5}{8}$

$0.625 = \frac{625}{1000}$. Dividing top and bottom by 125 gives $\frac{5}{8}$.

17. Answer: (C) 156

65% of 240 = $(65 \div 100) \times 240 = \mathbf{156}$.

18. Answer: (D) ₹351

Cost of 1 notebook = $216 \div 8 = ₹27$.

Cost of 13 notebooks = $13 \times 27 = \mathbf{₹351}$.

19. Answer: (A) Acute

An **acute** angle is less than 90° .

20. Answer: (B) 360°

The four angles of any quadrilateral always add up to **360°** .

21. Answer: (C) 56 cm

Perimeter = $2 \times (17 + 11) = 2 \times 28 = \mathbf{56 \text{ cm}}$.

22. Answer: (D) 72 cm^2

Area of a triangle = $\frac{1}{2} \times \text{base} \times \text{height} = \frac{1}{2} \times 16 \times 9 = \mathbf{72 \text{ cm}^2}$.

23. Answer: (A) 3

An equilateral triangle can be folded along a line from each vertex to the midpoint of the opposite side, giving **3** lines of symmetry.

24. Answer: (D) 97

$87=3 \times 29$, $91=7 \times 13$, $93=3 \times 31$ are composite. **97** has no factor other than 1 and itself, so it is prime.

25. Answer: (B) 28

Average = $(15+22+29+34+40) \div 5 = 140 \div 5 = \mathbf{28}$.

26. Answer: (B) 2,350 g

1 kg = 1,000 g, so 2 kg = 2,000 g. Adding 350 g gives **2,350 g**.

27. Answer: (C) 160 cm^3

Volume = $8 \times 5 \times 4 = \mathbf{160 \text{ cm}^3}$.

28. Answer: (D) $\frac{1}{6}$

$\frac{3}{4} \times \frac{2}{9} = \frac{6}{36}$. Dividing top and bottom by 6 gives $\frac{1}{6}$.

29. Answer: (A) ₹295

Cost of 3 toys = $3 \times 235 = ₹705$.

Change = $1,000 - 705 = \mathbf{₹295}$.

30. Answer: (B) 2 hours 45 minutes

From 9:20 a.m. to 12:00 p.m. is 2 hours 40 minutes, plus a further 5 minutes to 12:05 p.m. Total = **2 hours 45 minutes**.

31. Answer: (C) 4 m 65 cm

$825 \text{ cm} - 360 \text{ cm} = 465 \text{ cm} = \mathbf{4 \text{ m } 65 \text{ cm}}$.

32. Answer: (D) 378 kg

$9 \times 42 = \mathbf{378 \text{ kg}}$.

33. Answer: (A) 1,536

$32 \times 48 = 32 \times 50 - 32 \times 2 = 1,600 - 64 = \mathbf{1,536}$ seats.

34. Answer: (B) 92

$$2,208 \div 24 = \mathbf{92} \text{ crates.}$$

35. Answer: (C) 72

$$\text{Story books} = \frac{2}{5} \text{ of } 120 = 48. \text{ Books that are not story books} = 120 - 48 = \mathbf{72}.$$

36. Answer: (B) ₹4,750

$$\text{Perimeter} = 2 \times (60 + 35) = 190 \text{ m.}$$

$$\text{Cost} = 190 \times 25 = \mathbf{₹4,750}.$$

37. Answer: (B) 15

$$\text{Diya read 35 hours and Karan read 20 hours. Difference} = 35 - 20 = \mathbf{15} \text{ hours.}$$

38. Answer: (C) 1,577

$$\text{Dispatched} = 2,468 + 3,155 = 5,623. \text{ Left} = 7,200 - 5,623 = \mathbf{1,577}.$$

39. Answer: (D) 300 m/min

$$2.4 \text{ km} = 2,400 \text{ m. Speed} = 2,400 \div 8 = \mathbf{300 \text{ m/min.}}$$

40. Answer: (A) ₹48

$$216 \div 4.5 = \mathbf{₹48}.$$

41. Answer: (B) 15 days

$$6 \times 20 = 8 \times d, \text{ so } d = \mathbf{15 \text{ days.}}$$

42. Answer: (C) 45°

$$\text{Let the angles be } 3x, 4x, 5x. 12x = 180^\circ, x = 15^\circ. \text{ Smallest} = 3x = \mathbf{45^\circ}.$$

43. Answer: (D) 15 m

$$\text{height}^2 = 17^2 - 8^2 = 289 - 64 = 225. \text{ height} = \sqrt{225} = \mathbf{15 \text{ m.}}$$

44. Answer: (A) <

The numerators are equal, so the fraction with the larger denominator is smaller. Since $9 > 7$, $\frac{5}{9}$ is the smaller fraction,

so the sign is <.

45. Answer: (B) 750 litres

$$\text{The 300 litres fill the gap of } \frac{2}{5}, \text{ so } \frac{1}{5} \text{ of the capacity is 150 litres, and the total capacity} = 150 \times 5 = \mathbf{750 \text{ litres.}}$$

46. Answer: (A) (i) and (ii) only

Statement (i) is true, since any even number is a multiple of 2 and so is their product. Statement (ii) is true, since for two different numbers the HCF is always less than the LCM. Statement (iii) is false — a number divisible by both 4 and 5 is divisible by their LCM, 20, and 20 itself is not divisible by 9. Hence **(i) and (ii)**.

47. Answer: (C) ₹600

$$\text{Total biscuits} = 25 \times 12 = 300. \text{ Cost} = 300 \times 8 = ₹2,400.$$

$$\text{Profit} = 3,000 - 2,400 = \mathbf{₹600}.$$

48. Answer: (D) 216 m²

$$\text{Lawn area} = 30 \times 20 = 600 \text{ m}^2. \text{ Outer length} = 30 + 2 + 2 = 34 \text{ m, outer width} = 20 + 2 + 2 = 24 \text{ m, outer area} = 34 \times 24 = 816 \text{ m}^2.$$

$$\text{Path} = 816 - 600 = \mathbf{216 \text{ m}^2}.$$

49. Answer: (A) ₹6,000

After rent, the remainder is $\frac{3}{5}$ of the salary. Spending $\frac{1}{4}$ of that on groceries leaves $\frac{3}{4}$ of $\frac{3}{5} = \frac{9}{20}$ of the original salary.

$$\frac{9}{20} \text{ of the salary} = 2,700, \text{ so the salary} = \mathbf{₹6,000}.$$

50. Answer: (B) P-2, Q-1, R-3, S-4

A pentagon has 5 sides, a hexagon has 6 sides, an octagon has 8 sides and a heptagon has 7 sides. Matching each shape to its side count gives **P-2, Q-1, R-3, S-4**.