

Full Practice Exam — Set 1

Mathematics · Class 3 · Full Syllabus Practice Exam

TIME 60 minutes	QUESTIONS 35	TOTAL MARKS 40	MAX. SCORE ___ / 40
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Name: _____ Class/Sec: _____ Date: _____

INSTRUCTIONS

- There are **35 questions** in this paper. All questions are compulsory.
- Each question has four options (A), (B), (C) and (D). Exactly **one** option is correct.
- Questions 1–30 carry **1 mark** each. Questions 31–35 (Achievers Section) carry **2 marks** each.
- There is no negative marking. Use of a calculator is **not** allowed.
- Rough work may be done in the space at the side of each page.

Section 1 — Logical Reasoning

Q1–Q10 · 1 mark each

1. What comes next in the series? 4, 8, 12, 16, ____

- (A) 18 (B) 20
(C) 22 (D) 24

2. Find the **odd one out**: 121, 144, 150, 169

- (A) 121 (B) 144
(C) 150 (D) 169

3. What comes next in the letter series? B, E, H, K, ____

- (A) L (B) M
(C) O (D) N

4. Study the pattern in the top row. Which figure should come in place of the question mark?

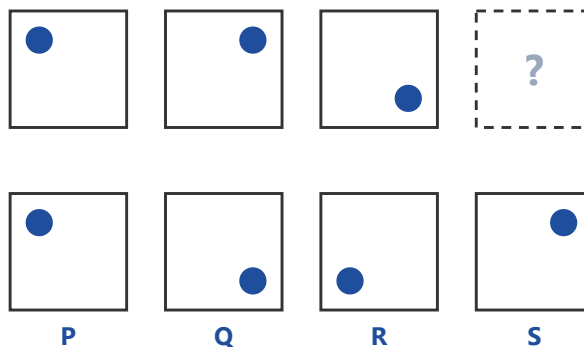


Fig. 4.1 — The dot moves one corner clockwise each time

- (A) P (B) Q
(C) R (D) S

5. In a certain code, PEN is written as 16-5-14. How is CUP written in the same code?

- (A) 3-21-16 (B) 3-20-16
(C) 2-21-16 (D) 3-21-15

6. Pointing to a girl, Sunil said, 'She is the daughter of my father's only daughter.' How is the girl related to Sunil?
- (A) Sister (B) Cousin
(C) Daughter (D) Niece
7. In a queue, Meena is 8th from the front and 15th from the back. How many people are in the queue?
- (A) 21 (B) 22
(C) 23 (D) 24
8. A man walks 6 km east, then turns right and walks 8 km. How far is he from his starting point?
- (A) 10 km (B) 2 km
(C) 14 km (D) 48 km
9. Which figure is the **odd one out**?

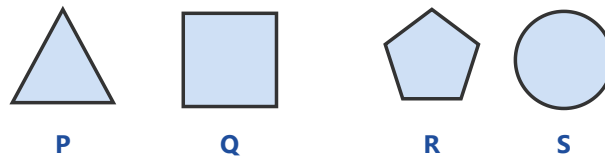


Fig. 9.1

- (A) P (B) Q
(C) R (D) S
10. If 1 January is a Thursday, what day of the week is 15 January?
- (A) Friday (B) Thursday
(C) Saturday (D) Sunday

Section 2 — Mathematical Reasoning

Q11–Q20 · 1 mark each

11. What is the place value of 7 in 4,735?
- (A) 7 (B) 70
(C) 7,000 (D) 700
12. The Roman numeral for 24 is ____.
- (A) XXIV (B) XXVIII
(C) IVXX (D) XXVI
13. $348 \times 4 =$ ____
- (A) 1,292 (B) 1,392
(C) 1,382 (D) 1,412
14. When 58 is divided by 7, the remainder is ____.
- (A) 1 (B) 2
(C) 3 (D) 4
15. $\frac{2}{5}$ of 30 is ____.
- (A) 6 (B) 10
(C) 12 (D) 15

16. 1 kilometre is equal to _____ metres.
- (A) 10 (B) 100
(C) 10,000 (D) 1,000
17. The perimeter of a square of side 9 cm is _____.
- (A) 36 cm (B) 27 cm
(C) 18 cm (D) 81 cm
18. Which fraction is greater, $\frac{3}{4}$ or $\frac{2}{3}$?
- (A) $\frac{3}{4}$ (B) $\frac{2}{3}$
(C) They are equal (D) Cannot say
19. How many lines of symmetry does a square have?
- (A) 1 (B) 2
(C) 4 (D) 6
20. The smallest 4-digit number is _____.
- (A) 999 (B) 1,000
(C) 1,001 (D) 9,999

Section 3 — Everyday Mathematics

Q21–Q30 · 1 mark each

21. A school has 1,245 boys and 1,178 girls. How many students are there in all?
- (A) 2,313 (B) 2,323
(C) 2,413 (D) 2,423
22. A cinema hall has 25 rows with 12 seats in each row. How many seats are there in all?
- (A) 37 (B) 250
(C) 300 (D) 320
23. A rope of 96 m is cut into pieces of 8 m each. How many pieces are obtained?
- (A) 8 (B) 10
(C) 12 (D) 88
24. Neha has ₹850 and Ravi has ₹625. How much **more** money does Neha have?
- (A) ₹225 (B) ₹215
(C) ₹235 (D) ₹1,475
25. A jug holds $3\frac{1}{2}$ litres of juice. It is poured equally into glasses of $\frac{1}{4}$ litre each. How many glasses are filled?
- (A) 7 (B) 10
(C) 14 (D) 16
26. A film starts at 3:45 p.m. and ends at 6:20 p.m. How long is the film?
- (A) 2 hours 25 minutes (B) 2 hours 35 minutes
(C) 3 hours 5 minutes (D) 2 hours 45 minutes
27. A shopkeeper had 25 kg of sugar. He sold 8 kg 250 g. How much sugar is left?
- (A) 16 kg 250 g (B) 17 kg 750 g
(C) 17 kg 250 g (D) 16 kg 750 g

28. The bar graph shows the marks scored by 5 students. What is the total of all their marks?

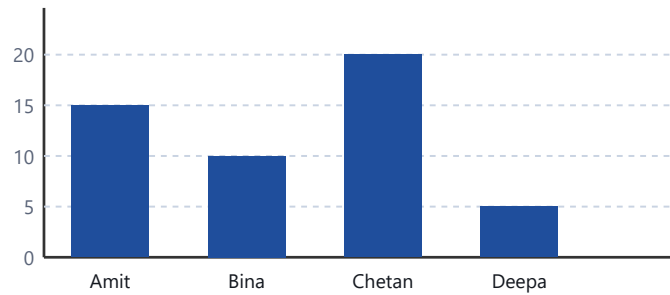


Fig. 28.1 — Marks scored by four students

- (A) 45 (B) 50
(C) 55 (D) 60
29. A square garden has a side of 25 m. What is the cost of fencing it at ₹20 per metre?
(A) ₹2,000 (B) ₹1,000
(C) ₹500 (D) ₹2,500
30. Sita saves ₹15 every day. How much will she save in 12 days?
(A) ₹27 (B) ₹180
(C) ₹150 (D) ₹200

Achievers Section

Q31–Q35 · 2 marks each

31. A number is 235 more than 468. What is 190 **less** than that number?
(A) 513 (B) 523
(C) 703 (D) 893
32. A fruit seller bought 1,500 oranges. He sold 620 on Monday and 485 on Tuesday. How many oranges are still unsold?
(A) 1,105 (B) 1,015
(C) 880 (D) 395
33. The perimeter of a rectangle is 54 cm and its length is 15 cm. What is its area?
(A) 180 cm^2 (B) 270 cm^2
(C) 324 cm^2 (D) 108 cm^2
34. In a class of 40 students, $\frac{1}{5}$ play cricket and $\frac{1}{4}$ play football. How many students play **neither** game?
(A) 18 (B) 20
(C) 22 (D) 24
35. Look at this pattern of matchsticks: 1 square needs 4 sticks, 2 squares in a row need 7 sticks, 3 squares need 10 sticks. How many sticks are needed for 6 squares in a row?
(A) 16 (B) 19
(C) 22 (D) 24

Answer Key

1	B	2	C	3	D	4	C	5	A
6	D	7	B	8	A	9	D	10	B
11	D	12	A	13	B	14	C	15	C
16	D	17	A	18	A	19	C	20	B
21	D	22	C	23	C	24	A	25	C
26	B	27	D	28	C	29	A	30	B
31	A	32	D	33	A	34	C	35	B

Solutions

1. Answer: (B) 20

Each number is 4 more than the one before it.

$$16 + 4 = \mathbf{20}.$$

2. Answer: (C) 150

$121 = 11 \times 11$, $144 = 12 \times 12$ and $169 = 13 \times 13$ — each is a number multiplied by itself. **150** is not, so it is the odd one out.

3. Answer: (D) N

Each letter jumps ahead by 3 places: B, (C, D), E, (F, G), H, (I, J), K, (L, M), **N**.

4. Answer: (C) R

The dot moves one corner **clockwise** each time: top-left, top-right, bottom-right. The next position is bottom-left, which is figure **R**.

5. Answer: (A) 3-21-16

Each letter is replaced by its position in the alphabet: P = 16, E = 5, N = 14.

So C = 3, U = 21 and P = 16, giving **3-21-16**.

6. Answer: (D) Niece

Sunil's father's only daughter must be Sunil's sister. So the girl, who is his sister's daughter, is Sunil's **niece**.

7. Answer: (B) 22

Meena is counted in both positions, so she must not be counted twice.

$$\text{Total} = 8 + 15 - 1 = \mathbf{22}.$$

8. Answer: (A) 10 km

Turning right from east means he walks south, so his two paths meet at a right angle and form a right-angled triangle.

$$\text{Distance} = \sqrt{6^2 + 8^2} = \sqrt{36 + 64} = \sqrt{100} = \mathbf{10 \text{ km}}.$$

9. Answer: (D) S

P (3 sides), Q (4 sides) and R (5 sides) are all made of straight sides with corners. **S** is a circle, which has no straight sides, so it is the odd one out.

10. Answer: (B) Thursday

15 January is 14 days after 1 January, and 14 is exactly 2 weeks (2×7). So the day of the week repeats: **Thursday**.

11. Answer: (D) 700

Reading from the right, 5 ones, 3 tens, **7 hundreds** and 4 thousands.

So the place value of 7 is $7 \times 100 = \mathbf{700}$.

12. Answer: (A) XXIV

$24 = 20 + 4$. Twenty is XX and four is IV, so 24 is written **XXIV**.

13. Answer: (B) 1,392

Ones: $8 \times 4 = 32$, write 2 carry 3.

Tens: $4 \times 4 = 16$, $+3 = 19$, write 9 carry 1.

Hundreds: $3 \times 4 = 12$, $+1 = 13$.

Product = **1,392**.

14. Answer: (C) 3

$7 \times 8 = 56$, the largest multiple of 7 not more than 58.

$$\text{Remainder} = 58 - 56 = \mathbf{3}.$$

15. Answer: (C) 12

$$\frac{1}{5} \text{ of } 30 = 6.$$

$$\frac{2}{5} \text{ of } 30 = 2 \times 6 = \mathbf{12}.$$

16. Answer: (D) 1,000

1 kilometre = **1,000** metres.

17. Answer: (A) 36 cm

A square has 4 equal sides.

$$\text{Perimeter} = 4 \times 9 = \mathbf{36 \text{ cm}}.$$

18. Answer: (A) $\frac{3}{4}$

Write both with denominator 12: $\frac{3}{4} = \frac{9}{12}$ and $\frac{2}{3} = \frac{8}{12}$.

Since $9 > 8$, $\frac{3}{4}$ is greater.

19. Answer: (C) 4

A square can be folded in **4** ways — vertically, horizontally, and along each of its two diagonals.

20. Answer: (B) 1,000

The largest 3-digit number is 999, so the smallest 4-digit number is $999 + 1 = \mathbf{1,000}$.

21. Answer: (D) 2,423

Ones: $5+8=13$, write 3 carry 1.

Tens: $4+7+1=12$, write 2 carry 1.

Hundreds: $2+1+1=4$.

Thousands: $1+1=2$.

Total = **2,423** students.

22. Answer: (C) 300

25 rows $\times$ 12 seats each.

$$25 \times 12 = 25 \times 10 + 25 \times 2 = 250 + 50 = \mathbf{300 \text{ seats}}.$$

23. Answer: (C) 12

$$96 \div 8 = \mathbf{12 \text{ pieces}}.$$

24. Answer: (A) ₹225

$$850 - 625 = \mathbf{₹225}.$$

25. Answer: (C) 14

$$3\frac{1}{2} = \frac{7}{2} \text{ litres.}$$

$$\text{Number of glasses} = \frac{7}{2} \div \frac{1}{4} = \frac{7}{2} \times 4 = \mathbf{14 \text{ glasses}}.$$

26. Answer: (B) 2 hours 35 minutes

From 3:45 p.m. to 6:45 p.m. would be 3 hours, but the film ends 25 minutes earlier.

$$3 \text{ hours} - 25 \text{ minutes} = \mathbf{2 \text{ hours } 35 \text{ minutes}}.$$

27. Answer: (D) 16 kg 750 g

Write 25 kg as 24 kg 1000 g to subtract.

$$24 \text{ kg } 1000 \text{ g} - 8 \text{ kg } 250 \text{ g} = \mathbf{16 \text{ kg } 750 \text{ g}}.$$

28. Answer: (C) 55

Reading the bars: Amit 15, Bina 10, Chetan 20, Deepa 5.

$$\text{Total} = 15 + 10 + 20 + 5 = \mathbf{50}.$$

29. Answer: (A) ₹2,000

$$\text{Perimeter} = 4 \times 25 = 100 \text{ m.}$$

$$\text{Cost} = 100 \times 20 = \text{₹2,000.}$$

30. Answer: (B) ₹180

$$15 \times 12 = \text{₹180.}$$

31. Answer: (A) 513

$$\text{First find the number: } 468 + 235 = 703.$$

$$\text{Now subtract 190: } 703 - 190 = \text{513.}$$

32. Answer: (D) 395

$$\text{Total sold} = 620 + 485 = 1,105 \text{ oranges.}$$

$$\text{Unsold} = 1,500 - 1,105 = \text{395 oranges.}$$

33. Answer: (A) 180 cm²

$$\text{Length} + \text{breadth} = 54 \div 2 = 27 \text{ cm, so breadth} = 27 - 15 = 12 \text{ cm.}$$

$$\text{Area} = 15 \times 12 = \text{180 cm}^2.$$

34. Answer: (C) 22

$$\text{Cricket: } \frac{1}{5} \text{ of } 40 = 8. \text{ Football: } \frac{1}{4} \text{ of } 40 = 10.$$

$$\text{Playing a game: } 8 + 10 = 18.$$

$$\text{Playing neither: } 40 - 18 = \text{22.}$$

35. Answer: (B) 19

After the first square, each extra one adds 3 sticks because one side is shared.

$$\text{Sticks} = 4 + 3 \times (\text{extra squares}) = 4 + 3 \times 5 = \text{19.}$$