

Full Practice Exam — Set 3

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

- What comes next in the series? 45, 40, 35, 30, ____
 (A) 20 (B) 25
 (C) 15 (D) 28
- Find the **odd one out**: 8, 27, 64, 90
 (A) 8 (B) 27
 (C) 64 (D) 90
- What comes next in the letter series? Z, W, T, Q, ____
 (A) P (B) M
 (C) O (D) N
- Study the number of circles in each box below. How many circles should be in the box marked with a question mark?

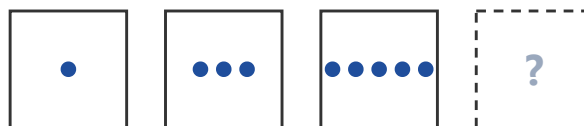


Fig. 4.1 — Each box has 2 more circles than the one before it

- (A) 6 (B) 7
(C) 8 (D) 9
- In a certain code, KITE is written as 11-9-20-5. How is BOAT written in the same code?
 (A) 2-15-1-19 (B) 2-14-1-20
 (C) 3-15-1-20 (D) 2-15-1-20
- Pointing to a man in a photograph, a woman said, 'His mother is the only daughter of my mother.' How is the man related to the woman?
 (A) Brother (B) Nephew
 (C) Son (D) Father

7. In a line of students, Karan is 11th from the front and 18th from the back. How many students are there in the line?
- (A) 27 (B) 28
(C) 29 (D) 30
8. A boy walks 5 km south, then turns left and walks 12 km. How far is he from his starting point?
- (A) 60 km (B) 17 km
(C) 7 km (D) 13 km
9. If 1 May is a Tuesday, what day of the week is 29 May?
- (A) Tuesday (B) Wednesday
(C) Monday (D) Thursday
10. Pen is to Write as Scissors is to ____
- (A) Paint (B) Draw
(C) Cut (D) Read

Section 2 — Mathematical Reasoning

Q11–Q20 · 1 mark each

11. What is the place value of 6 in 9,617?
- (A) 6 (B) 60
(C) 6,000 (D) 600
12. The Roman numeral for 37 is ____.
- (A) XXXVII (B) XXXIIV
(C) XVIIIIX (D) XXXVIII
13. $273 \times 5 =$ ____
- (A) 1,355 (B) 1,365
(C) 1,375 (D) 1,345
14. When 79 is divided by 9, the remainder is ____.
- (A) 5 (B) 6
(C) 7 (D) 8
15. $\frac{3}{7}$ of 49 is ____.
- (A) 18 (B) 21
(C) 24 (D) 28
16. 5 kilograms is equal to ____ grams.
- (A) 500 (B) 50
(C) 5,000 (D) 50,000

17. The figure shows a rectangular garden. What is its perimeter?

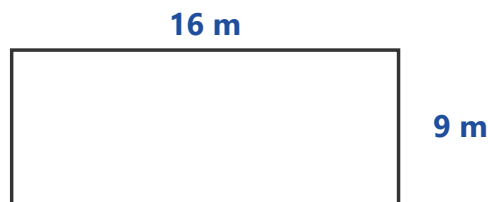


Fig. 17.1 — A rectangular garden

- (A) 25 m (B) 46 m
(C) 144 m (D) 50 m
18. Which fraction is greater, $\frac{5}{6}$ or $\frac{7}{9}$?
- (A) $\frac{5}{6}$ (B) $\frac{7}{9}$
(C) They are equal (D) Cannot say
19. How many lines of symmetry does an equilateral triangle have?
- (A) 1 (B) 2
(C) 3 (D) 4
20. Using the digits 4, 0, 7 and 2 exactly once each, what is the largest 4-digit number that can be formed?
- (A) 7,420 (B) 7,402
(C) 7,240 (D) 4,207

Section 3 — Everyday Mathematics

Q21–Q30 · 1 mark each

21. A library has 3,456 story books and 2,678 picture books. How many books are there in all?
- (A) 6,024 (B) 6,134
(C) 6,234 (D) 6,144
22. An auditorium has 32 rows with 18 chairs in each row. How many chairs are there in all?
- (A) 576 (B) 560
(C) 586 (D) 540
23. A wire of 108 m is cut into pieces of 9 m each. How many pieces are obtained?
- (A) 9 (B) 11
(C) 12 (D) 96
24. Priya has ₹1,240 and Rohit has ₹875. How much **more** money does Priya have?
- (A) ₹375 (B) ₹355
(C) ₹365 (D) ₹2,115
25. A can holds $4\frac{1}{2}$ litres of milk. It is poured equally into cups of $\frac{1}{6}$ litre each. How many cups are filled?
- (A) 24 (B) 27
(C) 30 (D) 18
26. A bus starts at 8:50 a.m. and reaches its destination at 11:15 a.m. How long is the journey?
- (A) 2 hours 15 minutes (B) 2 hours 35 minutes
(C) 1 hour 25 minutes (D) 2 hours 25 minutes

27. A bag had 18 kg of flour. 6 kg 350 g was used for baking. How much flour is left?

(A) 11 kg 650 g

(B) 12 kg 650 g

(C) 11 kg 750 g

(D) 12 kg 350 g

28. The bar graph shows the number of sweet packets sold by four class sections last week. How many more packets did the highest-selling section sell than the lowest-selling section?

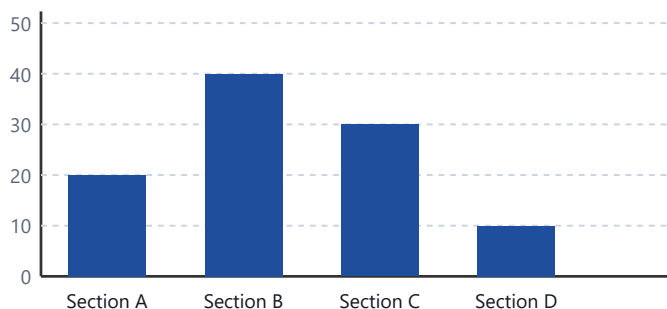


Fig. 28.1 — Sweet packets sold by four sections

(A) 30

(B) 20

(C) 10

(D) 50

29. A rectangular park is 40 m long and 25 m wide. What is the cost of fencing it at ₹18 per metre?

(A) ₹2,300

(B) ₹2,340

(C) ₹1,170

(D) ₹2,400

30. Meera saves ₹35 every day for 14 days. She then spends ₹120 on a book. How much money does she have left?

(A) ₹350

(B) ₹490

(C) ₹370

(D) ₹610

Achievers Section

Q31–Q35 · 2 marks each

31. A number is 340 more than 725. What is 275 **less** than that number?

(A) 1,065

(B) 780

(C) 800

(D) 790

32. A trader had 2,400 pens. He sold 875 on Monday and 640 on Tuesday. How many pens are still unsold?

(A) 885

(B) 895

(C) 865

(D) 1,515

33. The perimeter of a rectangle is 62 cm and its length is 19 cm. What is its area?

(A) 217 cm²

(B) 228 cm²

(C) 209 cm²

(D) 240 cm²

34. In a class of 48 students, $\frac{1}{4}$ play chess and $\frac{1}{6}$ play carrom. No student plays both games. How many students play **neither** game?

(A) 28

(B) 20

(C) 24

(D) 26

35. Match the number of sides in Column A with the correct shape name in Column B, then choose the correct combination.

Column A: (1) 5 sides (2) 6 sides (3) 8 sides

Column B: (P) Octagon (Q) Pentagon (R) Hexagon

(A) 1-R, 2-Q, 3-P

(B) 1-P, 2-Q, 3-R

(C) 1-Q, 2-R, 3-P

(D) 1-Q, 2-P, 3-R

Answer Key

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

Solutions

1. Answer: (B) 25

Each number is 5 less than the one before it.

$$30 - 5 = \mathbf{25}.$$

2. Answer: (D) 90

$8 = 2 \times 2 \times 2$, $27 = 3 \times 3 \times 3$ and $64 = 4 \times 4 \times 4$ — each is a number multiplied by itself three times. **90** is not, so it is the odd one out.

3. Answer: (D) N

Each letter moves back 3 places: Z, (Y, X), W, (V, U), T, (S, R), Q, (P, O), **N**.

4. Answer: (B) 7

The number of circles increases by 2 each time: 1, 3, 5,

$$\text{Next number} = 5 + 2 = \mathbf{7}.$$

5. Answer: (D) 2-15-1-20

Each letter is replaced by its position in the alphabet: K = 11, I = 9, T = 20, E = 5.

So B = 2, O = 15, A = 1 and T = 20, giving **2-15-1-20**.

6. Answer: (C) Son

The only daughter of the woman's mother is the woman herself.

So the man's mother is the woman, which means the man is her **son**.

7. Answer: (B) 28

Karan is counted from both ends, so he must not be counted twice.

$$\text{Total} = 11 + 18 - 1 = \mathbf{28}.$$

8. Answer: (D) 13 km

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

$$\text{Distance} = \sqrt{(5^2 + 12^2)} = \sqrt{(25 + 144)} = \sqrt{169} = \mathbf{13 \text{ km}}.$$

9. Answer: (A) Tuesday

29 May is 28 days after 1 May, and 28 is exactly 4 weeks (4×7). So the day of the week repeats: **Tuesday**.

10. Answer: (C) Cut

A pen is a tool used to write. In the same way, a pair of scissors is a tool used to **cut**.

11. Answer: (D) 600

Reading from the right, 7 ones, 1 ten, **6 hundreds** and 9 thousands.

So the place value of 6 is $6 \times 100 = \mathbf{600}$.

12. Answer: (A) XXXVII

$37 = 30 + 7$. Thirty is XXX and seven is VII, so 37 is written **XXXVII**.

13. Answer: (B) 1,365

Ones: $3 \times 5 = 15$, write 5 carry 1.

Tens: $7 \times 5 = 35$, $+1 = 36$, write 6 carry 3.

Hundreds: $2 \times 5 = 10$, $+3 = 13$.

Product = **1,365**.

14. Answer: (C) 7

$9 \times 8 = 72$, the largest multiple of 9 not more than 79.

$$\text{Remainder} = 79 - 72 = \mathbf{7}.$$

15. Answer: (B) 21

$$\frac{1}{7} \text{ of } 49 = 7.$$

$$\frac{3}{7} \text{ of } 49 = 3 \times 7 = \mathbf{21}.$$

16. Answer: (C) 5,000

1 kilogram = 1,000 grams.

5 kilograms = $5 \times 1,000 = \mathbf{5,000}$ grams.

17. Answer: (D) 50 m

Perimeter of a rectangle = $2 \times (\text{length} + \text{breadth})$.

Perimeter = $2 \times (16 + 9) = 2 \times 25 = \mathbf{50 \text{ m}}$.

18. Answer: (A) $\frac{5}{6}$

Write both with denominator 18: $\frac{5}{6} = \frac{15}{18}$ and $\frac{7}{9} = \frac{14}{18}$.

Since $15 > 14$, $\frac{5}{6}$ is greater.

19. Answer: (C) 3

An equilateral triangle can be folded in **3** ways, once through each corner and the middle of the opposite side.

20. Answer: (A) 7,420

To make the largest number, place the digits in decreasing order from the thousands place.

Largest number = **7,420**.

21. Answer: (B) 6,134

Ones: $6+8=14$, write 4 carry 1.

Tens: $5+7+1=13$, write 3 carry 1.

Hundreds: $4+6+1=11$, write 1 carry 1.

Thousands: $3+2+1=6$.

Total = **6,134** books.

22. Answer: (A) 576

32 rows $\times$ 18 chairs each.

$32 \times 18 = 32 \times 20 - 32 \times 2 = 640 - 64 = \mathbf{576}$ chairs.

23. Answer: (C) 12

$108 \div 9 = \mathbf{12}$ pieces.

24. Answer: (C) ₹365

$1,240 - 875 = \mathbf{₹365}$.

25. Answer: (B) 27

$$4\frac{1}{2} = \frac{9}{2} \text{ litres.}$$

Number of cups = $\frac{9}{2} \div \frac{1}{6} = \frac{9}{2} \times 6 = \mathbf{27}$ cups.

26. Answer: (D) 2 hours 25 minutes

From 8:50 a.m. to 10:50 a.m. is 2 hours, and from 10:50 a.m. to 11:15 a.m. is a further 25 minutes.

Total journey time = 2 hours + 25 minutes = **2 hours 25 minutes**.

27. Answer: (A) 11 kg 650 g

Write 18 kg as 17 kg 1,000 g to subtract.

$17 \text{ kg } 1,000 \text{ g} - 6 \text{ kg } 350 \text{ g} = \mathbf{11 \text{ kg } 650 \text{ g}}$.

28. Answer: (A) 30

Reading the bars: Section A 20, Section B 40, Section C 30, Section D 10.

Highest is Section B (40) and lowest is Section D (10).

Difference = $40 - 10 = 30$.

29. Answer: (B) ₹2,340

Perimeter = $2 \times (40 + 25) = 2 \times 65 = 130$ m.

Cost of fencing = $130 \times 18 = \text{₹}2,340$.

30. Answer: (C) ₹370

Total savings = $35 \times 14 = \text{₹}490$.

Money left = $490 - 120 = \text{₹}370$.

31. Answer: (D) 790

First find the number: $725 + 340 = 1,065$.

Now subtract 275: $1,065 - 275 = 790$.

32. Answer: (A) 885

Total sold = $875 + 640 = 1,515$ pens.

Unsold = $2,400 - 1,515 = 885$ pens.

33. Answer: (B) 228 cm^2

Length + breadth = $62 \div 2 = 31$ cm, so breadth = $31 - 19 = 12$ cm.

Area = $19 \times 12 = 228 \text{ cm}^2$.

34. Answer: (A) 28

Chess: $\frac{1}{4}$ of 48 = 12 students. Carrom: $\frac{1}{6}$ of 48 = 8 students.

Playing a game: $12 + 8 = 20$ students.

Playing neither: $48 - 20 = 28$ students.

35. Answer: (C) 1-Q, 2-R, 3-P

A pentagon has 5 sides, a hexagon has 6 sides and an octagon has 8 sides.

So the correct matching is **1-Q, 2-R, 3-P**.