

Full Practice Exam — Set 3

Mathematics · Class 4 · 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.
- 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? 7, 14, 21, 28, ____
 (A) 35 (B) 34
 (C) 32 (D) 42
- Find the **odd one out**: 16, 24, 32, 27
 (A) 16 (B) 24
 (C) 32 (D) 27
- What comes next in the letter series? C, F, I, L, ____
 (A) P (B) N
 (C) O (D) M
- Study the pattern in the number of dots in each box of the top row. Which of the figures P, Q, R or S should come in place of the question mark?

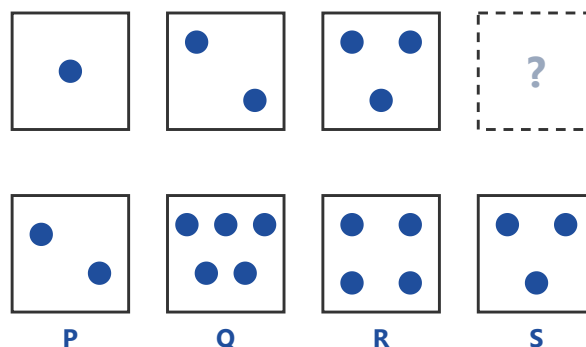


Fig. 4.1 — The number of dots increases by one in each box

- (A) P (B) Q
 (C) R (D) S
- In a certain code, SUN is written as 19-21-14. How is FUN written in the same code?
 (A) 6-20-14 (B) 6-21-13
 (C) 5-21-14 (D) 6-21-14

6. Find the **odd one out**: Cube, Cone, Sphere, Circle

(A) Circle

(C) Cone

(B) Cube

(D) Sphere

7. Hour : Minute :: Minute : ____

(A) Day

(C) Second

(B) Hour

(D) Week

8. In a row of 20 students, Kiran is 14th from the left end. What is her position from the right end?

(A) 8th

(C) 9th

(B) 6th

(D) 7th

9. A girl is facing west. She turns 90° clockwise, and then turns 90° clockwise again. Which direction is she facing now?

(A) East

(C) North

(B) South

(D) West

10. Aarav is heavier than Bhanu. Chetna is lighter than Bhanu. Who is the **lightest** of the three?

(A) Bhanu

(C) Aarav

(B) Chetna

(D) Cannot be determined

Section 2 — Mathematical Reasoning

Q11–Q20 · 1 mark each

11. What is the place value of 4 in 84,213?

(A) 400

(C) 4,000

(B) 40

(D) 4

12. The Roman numeral for 94 is ____.

(A) XCVI

(C) IC

(B) LXXXXIV

(D) XCIV

13. $573 \times 6 =$ ____

(A) 3,438

(C) 3,428

(B) 3,488

(D) 3,348

14. When 617 is divided by 9, the remainder is ____.

(A) 5

(C) 6

(B) 4

(D) 68

15. The LCM of 9 and 12 is ____.

(A) 72

(C) 108

(B) 36

(D) 3

16. Which fraction is equivalent to $\frac{3}{4}$?

(A) $\frac{4}{5}$

(C) $\frac{3}{8}$

(B) $\frac{9}{12}$

(D) $\frac{6}{9}$

17. $5.36 + 2.7 =$ ____

(A) 7.96

(C) 8.06

(B) 8.6

(D) 7.06

18. An angle measuring 180° is a/an _____ angle.

- (A) Right
(C) Obtuse

- (B) Acute
(D) Straight

19. The figure shows a square with one side marked. What is its area?

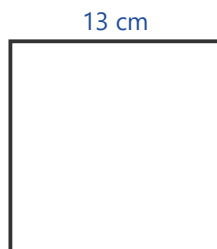


Fig. 19.1 — Square with its side marked

- (A) 169 cm^2
(C) 144 cm^2

- (B) 26 cm^2
(D) 52 cm^2

20. How many lines of symmetry does a square have?

- (A) Infinitely many
(C) 2

- (B) 4
(D) 3

Section 3 — Everyday Mathematics

Q21–Q30 · 1 mark each

21. A notebook costs ₹62. Aditi buys 5 such notebooks and pays with a ₹500 note. How much change does she get?

- (A) ₹180
(C) ₹190

- (B) ₹210
(D) ₹240

22. A cricket match starts at 2:50 p.m. and ends at 5:15 p.m. How long does the match last?

- (A) 3 hours 5 minutes
(C) 2 hours 35 minutes

- (B) 2 hours 15 minutes
(D) 2 hours 25 minutes

23. A wire is 9 m 15 cm long. A piece 3 m 40 cm long is cut off. What length of wire is left?

- (A) 5 m 75 cm
(C) 5 m 65 cm

- (B) 6 m 25 cm
(D) 5 m 85 cm

24. A can holds 4 l 800 ml of paint. How many small tins of 400 ml each can be filled from it?

- (A) 16
(C) 14

- (B) 10
(D) 12

25. One crate of apples weighs 18 kg. What is the total weight of 15 such crates?

- (A) 260 kg
(C) 290 kg

- (B) 270 kg
(D) 280 kg

26. A stadium has 32 rows of seats with 45 seats in each row. How many seats are there in all?

- (A) 1,480
(C) 1,440

- (B) 1,400
(D) 1,360

27. 1,872 oranges are packed into crates of 24 oranges each. How many crates are needed?

- (A) 72
(C) 78

- (B) 88
(D) 68

28. A library has 108 books, of which $\frac{5}{9}$ are story books. How many books are **not** story books?

- (A) 60 (B) 48
(C) 72 (D) 36

29. The table shows the number of apples sold by a fruit seller from Monday to Friday. What was the total number of apples sold on Wednesday and Thursday together?

Day	Mon	Tue	Wed	Thu	Fri
Apples sold	18	25	14	30	22

Table 29.1 — Apples sold during the week

- (A) 39 (B) 44
(C) 52 (D) 36

30. A rectangular playground is 70 m long and 40 m wide. What is the cost of fencing it all round at ₹18 per metre?

- (A) ₹3,600 (B) ₹4,200
(C) ₹3,780 (D) ₹3,960

Achievers Section

Q31–Q35 · 2 marks each

31. A fruit vendor had 6,200 mangoes. He sold 2,450 mangoes in the morning and 1,875 in the afternoon. He then received a fresh delivery of 900 mangoes. How many mangoes does he have now?

- (A) 2,775 (B) 2,675
(C) 1,875 (D) 2,825

32. Study the pattern: 4, 9, 16, 25, 36, ... These are the squares of 2, 3, 4, 5 and 6. What is the **7th** number in this pattern?

- (A) 64 (B) 49
(C) 81 (D) 56

33. How many of the following statements are TRUE?

- (i) The smallest 5-digit number is 10,000.
(ii) The HCF of 8 and 12 is 4.
(iii) A regular pentagon has 5 sides.
(iv) 1 kilogram = 100 grams.

- (A) 4 (B) 3
(C) 2 (D) 1

34. A rectangular plot is 24 m long and 16 m wide. Two square flower beds, each of side 4 m, are made inside it. What area of the plot remains **uncovered**?

- (A) 344 m² (B) 352 m²
(C) 368 m² (D) 360 m²

35. Arjun and Vivek share ₹720 between them in the ratio 4:5. How much **more** money does Vivek get than Arjun?

- (A) ₹72 (B) ₹90
(C) ₹80 (D) ₹100

Answer Key

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

Solutions

1. Answer: (A) 35

Each number is 7 more than the one before it.
 $28 + 7 = \mathbf{35}$.

2. Answer: (D) 27

16, 24 and 32 are all multiples of 8. **27** is not a multiple of 8, so it is the odd one out.

3. Answer: (C) O

Each letter in the series skips two letters: C, (D, E), F, (G, H), I, (J, K), L, (M, N), **O**. So the next letter is O.

4. Answer: (C) R

The number of dots increases by one in each box of the top row: 1, 2, 3, so the missing box should have 4 dots. Among the four choices, only **R** has 4 dots.

5. Answer: (D) 6-21-14

Each letter is replaced by its position in the alphabet: S = 19, U = 21, N = 14.
So F = 6, U = 21 and N = 14, giving **6-21-14**.

6. Answer: (A) Circle

A cube, a cone and a sphere are all solid (3-D) shapes that take up space. A **circle** is a flat (2-D) shape, so it does not belong with the others.

7. Answer: (C) Second

1 hour is made up of 60 minutes. In the same way, 1 minute is made up of 60 **seconds**.

8. Answer: (D) 7th

Position from the right = total – position from the left + 1
 $= 20 - 14 + 1 = \mathbf{7th}$.
(Check: 13 students stand to her left and 6 to her right, and $13 + 1 + 6 = 20$. ✓)

9. Answer: (A) East

Turning 90° clockwise from west takes her to north. A second 90° clockwise turn takes her from north to **east**.

10. Answer: (B) Chetna

Aarav is heavier than Bhanu, so Bhanu is not the heaviest.
Chetna is lighter than Bhanu, so Chetna is lighter than both Aarav and Bhanu.
This makes **Chetna** the lightest of the three.

11. Answer: (C) 4,000

Reading from the right: 3 ones, 1 ten, 2 hundreds, **4 thousands** and 8 ten thousands.
So the place value of 4 is $4 \times 1,000 = \mathbf{4,000}$.

12. Answer: (D) XCIV

$94 = 90 + 4$. Ninety is XC and four is IV, so 94 is written **XCIV**. A symbol is never repeated more than three times, which rules out LXXXXIV.

13. Answer: (A) 3,438

Ones: $3 \times 6 = 18$, write 8 and carry 1.
Tens: $7 \times 6 = 42$, plus 1 = 43, write 3 and carry 4.
Hundreds: $5 \times 6 = 30$, plus 4 = 34.
Product = **3,438**.

14. Answer: (A) 5

$9 \times 68 = 612$, which is the largest multiple of 9 not more than 617.
Remainder = $617 - 612 = \mathbf{5}$. (The quotient is 68.)

15. Answer: (B) 36

Multiples of 9: 9, 18, 27, **36**...

Multiples of 12: 12, 24, **36**...

The smallest number in both lists is **36**.

16. Answer: (B) $\frac{9}{12}$

Multiplying both the numerator and the denominator of $\frac{3}{4}$ by 3 gives $\frac{9}{12}$.

(Check the others: $\frac{4}{5}$, $\frac{3}{8}$ and $\frac{6}{9} = \frac{2}{3}$ are all different in value.)

17. Answer: (C) 8.06

Line up the decimal points and write 2.7 as 2.70.

$5.36 + 2.70 = \mathbf{8.06}$.

18. Answer: (D) Straight

An angle that measures exactly 180° and forms a straight line is called a **straight** angle.

19. Answer: (A) 169 cm^2

All four sides of a square are equal, so this square has a side of 13 cm.

Area of a square = side $\times$ side = $13 \times 13 = \mathbf{169 \text{ cm}^2}$. (Adding the four sides would give the perimeter, not the area.)

20. Answer: (B) 4

A square can be folded along both diagonals and along the two lines joining the midpoints of opposite sides, giving **4** lines of symmetry in all.

21. Answer: (C) ₹190

Cost of 5 notebooks = $5 \times 62 = \text{₹}310$.

Change = $500 - 310 = \mathbf{\text{₹}190}$.

22. Answer: (D) 2 hours 25 minutes

From 2:50 p.m. to 5:50 p.m. is 3 hours, but the match actually ends 35 minutes earlier, at 5:15 p.m.

Duration = 3 hours – 35 minutes = **2 hours 25 minutes**.

23. Answer: (A) 5 m 75 cm

Change to centimetres: 9 m 15 cm = 915 cm and 3 m 40 cm = 340 cm.

$915 - 340 = 575 \text{ cm} = \mathbf{5 \text{ m } 75 \text{ cm}}$.

24. Answer: (D) 12

4 l 800 ml = 4,800 ml.

Number of tins = $4,800 \div 400 = \mathbf{12}$.

25. Answer: (B) 270 kg

Total weight = $15 \times 18 = \mathbf{270 \text{ kg}}$.

26. Answer: (C) 1,440

Total seats = $32 \times 45 = 32 \times 40 + 32 \times 5$

$= 1,280 + 160 = \mathbf{1,440}$ seats.

27. Answer: (C) 78

$1,872 \div 24$.

$24 \times 70 = 1,680$ and $1,872 - 1,680 = 192$, and $24 \times 8 = 192$.

So the answer is $70 + 8 = \mathbf{78}$ crates.

28. Answer: (B) 48

Story books = $\frac{5}{9}$ of 108 = $(108 \div 9) \times 5 = 12 \times 5 = 60$.

Books that are not story books = $108 - 60 = 48$.

(Alternatively, these books are $\frac{4}{9}$ of 108 = $12 \times 4 = 48$. ✓)

29. Answer: (B) 44

Apples sold on Wednesday = 14 and on Thursday = 30.

Total = $14 + 30 = 44$ apples.

30. Answer: (D) ₹3,960

Perimeter of the playground = $2 \times (\text{length} + \text{breadth})$

= $2 \times (70 + 40) = 2 \times 110 = 220$ m.

Cost = $220 \times 18 = \text{₹}3,960$.

31. Answer: (A) 2,775

Mangoes sold in all = $2,450 + 1,875 = 4,325$.

Mangoes left after selling = $6,200 - 4,325 = 1,875$.

Adding the new delivery: $1,875 + 900 = 2,775$ mangoes.

32. Answer: (A) 64

The pattern is $2 \times 2, 3 \times 3, 4 \times 4, 5 \times 5, 6 \times 6$ — the square of consecutively increasing numbers starting from 2.

The 6th number is $7 \times 7 = 49$ and the 7th number is $8 \times 8 = 64$.

33. Answer: (B) 3

Statement (i) is true, since 10,000 is indeed the smallest 5-digit number.

Statement (ii) is true: the common factors of 8 and 12 are 1, 2 and 4, so the HCF is 4.

Statement (iii) is true, since a regular pentagon has 5 equal sides.

Statement (iv) is false: 1 kilogram = 1,000 grams, not 100.

Exactly **3** statements are true.

34. Answer: (B) 352 m²

Area of the plot = $24 \times 16 = 384$ m².

Area of one flower bed = $4 \times 4 = 16$ m², so two beds cover $2 \times 16 = 32$ m².

Uncovered area = $384 - 32 = 352$ m².

35. Answer: (C) ₹80

The ratio 4:5 has $4 + 5 = 9$ equal parts, so each part = $720 \div 9 = ₹80$.

Arjun gets 4 parts = $4 \times 80 = ₹320$ and Vivek gets 5 parts = $5 \times 80 = ₹400$.

Difference = $400 - 320 = ₹80$.