

Full Practice Exam — Set 2

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? 3, 6, 9, 12, ____
 (A) 15 (B) 14
 (C) 16 (D) 18
- Find the **odd one out**: 30, 15, 24, 20
 (A) 30 (B) 15
 (C) 24 (D) 20
- What comes next in the letter series? Z, X, V, T, ____
 (A) S (B) R
 (C) Q (D) U
- Find the **odd one out**: Square, Rectangle, Rhombus, Triangle
 (A) Rhombus (B) Rectangle
 (C) Square (D) Triangle
- Study the pattern in the number of sides of each figure in the top row. Which of the figures P, Q, R or S should come in place of the question mark?

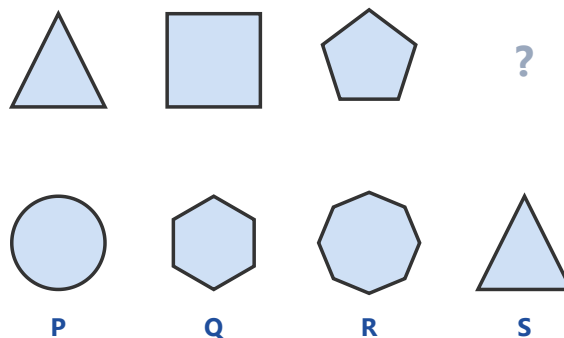


Fig. 5.1 — The number of sides increases by one each time

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

6. In a certain code, DOG is written as 4-15-7. How is CAT written in the same code?
- (A) 4-1-20 (B) 3-1-20
(C) 3-1-19 (D) 3-2-20
7. $4 : 16 :: 6 : \underline{\hspace{2cm}}$
- (A) 36 (B) 30
(C) 24 (D) 42
8. In a row of 15 students, Aman is 9th from the left end. What is his position from the right end?
- (A) 8th (B) 6th
(C) 9th (D) 7th
9. A girl is facing east. She turns 90° anticlockwise, and then turns 180° more. Which direction is she facing now?
- (A) South (B) West
(C) North (D) East
10. Neha is taller than Raj but shorter than Meera. Meera is shorter than Sita. Who is the **tallest** of the four?
- (A) Meera (B) Sita
(C) Raj (D) Neha

Section 2 — Mathematical Reasoning

Q11–Q20 · 1 mark each

11. What is the place value of 5 in 58,742?
- (A) 5,000 (B) 5
(C) 500 (D) 50,000
12. The Roman numeral for 47 is _____.
- (A) XLVII (B) LVII
(C) XXXXVII (D) XLVIII
13. $356 \times 7 = \underline{\hspace{2cm}}$
- (A) 2,432 (B) 2,492
(C) 2,392 (D) 2,592
14. When 538 is divided by 7, the remainder is _____.
- (A) 5 (B) 6
(C) 4 (D) 7
15. The HCF of 18 and 24 is _____.
- (A) 9 (B) 3
(C) 6 (D) 12
16. Which fraction is equivalent to $\frac{3}{5}$?
- (A) $\frac{6}{8}$ (B) $\frac{5}{8}$
(C) $\frac{9}{15}$ (D) $\frac{3}{10}$
17. $8.6 - 3.75 = \underline{\hspace{2cm}}$
- (A) 5.85 (B) 4.15
(C) 4.75 (D) 4.85

18. An angle measuring 42° is a/an _____ angle.
- (A) Acute (B) Obtuse
(C) Right (D) Straight
19. How many lines of symmetry does an equilateral triangle have?
- (A) 2 (B) 3
(C) 1 (D) Infinitely many
20. The rectangle shown has its length and breadth marked. What is its area?

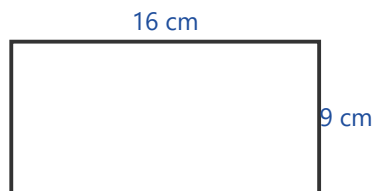


Fig. 20.1 — Rectangle with length and breadth marked

- (A) 128 cm^2 (B) 50 cm
(C) 144 cm^2 (D) 154 cm^2

Section 3 — Everyday Mathematics

Q21–Q30 · 1 mark each

21. A pen costs ₹18. Kabir buys 6 such pens and pays with a ₹200 note. How much change does he get?
- (A) ₹88 (B) ₹112
(C) ₹82 (D) ₹92
22. A train leaves the station at 9:20 a.m. and reaches the next station at 11:05 a.m. How long is the journey?
- (A) 1 hour 45 minutes (B) 1 hour 35 minutes
(C) 2 hours 5 minutes (D) 1 hour 55 minutes
23. A ribbon is 7 m 25 cm long. A piece 2 m 60 cm long is cut off. What length of ribbon is left?
- (A) 3 m 65 cm (B) 4 m 65 cm
(C) 4 m 55 cm (D) 5 m 65 cm
24. A tank holds 18 l 750 ml of water. How many bottles of 750 ml each can be filled from it?
- (A) 20 (B) 24
(C) 25 (D) 30
25. One sack of flour weighs 40 kg. What is the total weight of 12 such sacks?
- (A) 420 kg (B) 380 kg
(C) 480 kg (D) 440 kg
26. A hall has 18 rows of chairs with 24 chairs in each row. How many chairs are there in all?
- (A) 432 (B) 408
(C) 442 (D) 468
27. 1,536 mangoes are packed into boxes of 24 mangoes each. How many boxes are needed?
- (A) 54 (B) 74
(C) 64 (D) 84

28. A garden has 84 plants, of which $\frac{2}{7}$ are rose plants. How many plants are **not** rose plants?

- (A) 24 (B) 36
(C) 72 (D) 60

29. The bar graph shows the number of toys sold by a shop on four days of a sale. How many more toys were sold on Tuesday than on Wednesday?

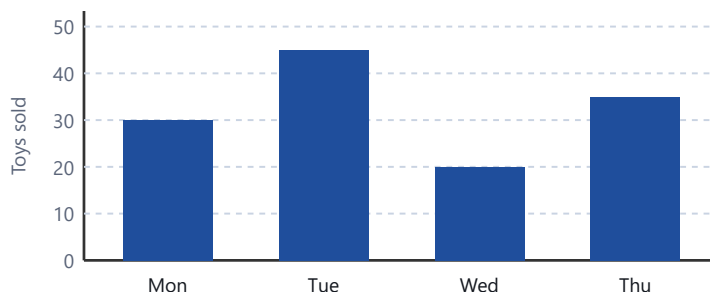


Fig. 29.1 — Toys sold each day of the sale

- (A) 15 (B) 20
(C) 30 (D) 25

30. 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) ₹3,800
(C) ₹5,500 (D) ₹4,750

Achievers Section

Q31–Q35 · 2 marks each

31. How many of the following statements are TRUE?

- (i) The smallest 4-digit number is 1,000.
(ii) The LCM of 4 and 6 is 20.
(iii) A regular hexagon has 6 sides.
(iv) 1 litre = 100 millilitres.

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

32. A stationery shop had 3,500 notebooks in stock. During a sale, 1,275 notebooks were sold on Monday and 968 were sold on Tuesday. On Wednesday, a fresh supply of 650 notebooks arrived. How many notebooks does the shop have now?

- (A) 1,907 (B) 1,257
(C) 2,153 (D) 1,975

33. Using the digits 4, 0, 6 and 9 **once each**, find the sum of the greatest and the smallest four-digit numbers that can be formed.

- (A) 13,609 (B) 13,709
(C) 13,719 (D) 12,709

34. Match the shapes in Column A with their number of lines of symmetry in Column B, then choose the option that shows the correct matching throughout.

Column A: P. Square Q. Circle R. Equilateral triangle S. Rectangle (not a square)

Column B: 1. 4 2. Infinitely many 3. 3 4. 2

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

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Answer Key

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

Solutions

1. Answer: (A) 15

Each number in the pattern is 3 more than the one before it.

$$12 + 3 = \mathbf{15}.$$

2. Answer: (C) 24

15, 20 and 30 are all multiples of 5. **24** is not a multiple of 5, so it is the odd one out.

3. Answer: (B) R

Each letter in the series skips one letter going backwards through the alphabet: Z, (Y), X, (W), V, (U), T, (S), **R**. So the next letter is R.

4. Answer: (D) Triangle

A square, a rectangle and a rhombus are all quadrilaterals with 4 straight sides. A **triangle** has only 3 sides, so it does not belong with the others.

5. Answer: (B) Q

The first figure has 3 sides (triangle), the second has 4 sides (square) and the third has 5 sides (pentagon), so the number of sides increases by one each time. The missing figure should therefore have 6 sides. Among the four choices, the six-sided hexagon is figure **Q**.

6. Answer: (B) 3-1-20

Each letter is replaced by its position in the alphabet: D = 4, O = 15, G = 7.

So C = 3, A = 1 and T = 20, giving **3-1-20**.

7. Answer: (A) 36

The second number is the first multiplied by itself: $4 \times 4 = 16$.

$$\text{So } 6 \times 6 = \mathbf{36}.$$

8. Answer: (D) 7th

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

$$= 15 - 9 + 1 = \mathbf{7th}.$$

(Check: 8 students stand to his left and 6 to his right, and $8 + 1 + 6 = 15$. ✓)

9. Answer: (A) South

Turning 90° anticlockwise from east takes her to north. A further 180° turn takes her from north to **south**.

10. Answer: (B) Sita

Neha is taller than Raj, so Raj is not the tallest.

Meera is taller than Neha, so Neha is not the tallest.

Sita is taller than Meera, so Meera is not the tallest either.

That leaves **Sita** as the tallest of the four.

11. Answer: (D) 50,000

Reading from the right: 2 ones, 4 tens, 7 hundreds, 8 thousands and **5 ten thousands**.

So the place value of 5 is $5 \times 10,000 = \mathbf{50,000}$.

12. Answer: (A) XLVII

$47 = 40 + 7$. Forty is XL and seven is VII, so 47 is written **XLVII**. A symbol is never repeated more than three times, which rules out XXXXVII and XLVIII.

13. Answer: (B) 2,492

Ones: $6 \times 7 = 42$, write 2 and carry 4.

Tens: $5 \times 7 = 35$, plus 4 = 39, write 9 and carry 3.

Hundreds: $3 \times 7 = 21$, plus 3 = 24.

Product = **2,492**.

14. Answer: (B) 6

$7 \times 76 = 532$, which is the largest multiple of 7 not more than 538.

Remainder = $538 - 532 = 6$. (The quotient is 76.)

15. Answer: (C) 6

Factors of 18: 1, 2, 3, 6, 9, 18.

Factors of 24: 1, 2, 3, 4, 6, 8, 12, 24.

The greatest number common to both lists is **6**.

16. Answer: (C) $\frac{9}{15}$

Multiplying both the numerator and the denominator of $\frac{3}{5}$ by 3 gives **$\frac{9}{15}$** .

(Check the others: $\frac{6}{8} = \frac{3}{4}$, $\frac{5}{8}$ and $\frac{3}{10}$ are all different in value from $\frac{3}{5}$.)

17. Answer: (D) 4.85

Line up the decimal points and write 8.6 as 8.60.

$8.60 - 3.75 = 4.85$.

18. Answer: (A) Acute

An **acute** angle is less than 90° . Since 42° is less than 90° , it is acute.

19. Answer: (B) 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 — one for each pair of equal sides.

20. Answer: (C) 144 cm^2

Area of a rectangle = length $\times$ breadth = $16 \times 9 = 144 \text{ cm}^2$. (Adding the two sides and doubling them gives the perimeter, not the area.)

21. Answer: (D) ₹92

Cost of 6 pens = $6 \times 18 = ₹108$.

Change = $200 - 108 = ₹92$.

22. Answer: (A) 1 hour 45 minutes

From 9:20 a.m. to 11:20 a.m. is 2 hours, but the train arrives 15 minutes earlier, at 11:05 a.m.

Duration = 2 hours – 15 minutes = **1 hour 45 minutes**.

23. Answer: (B) 4 m 65 cm

Change to centimetres: 7 m 25 cm = 725 cm and 2 m 60 cm = 260 cm.

$725 - 260 = 465 \text{ cm} = 4 \text{ m } 65 \text{ cm}$.

24. Answer: (C) 25

$18 \mid 750 \text{ ml} = 18,750 \text{ ml}$.

Number of bottles = $18,750 \div 750 = 25$.

25. Answer: (C) 480 kg

Total weight = $12 \times 40 = 480 \text{ kg}$.

26. Answer: (A) 432

Total chairs = $18 \times 24 = 18 \times 20 + 18 \times 4$

$= 360 + 72 = 432$ chairs.

27. Answer: (C) 64

$1,536 \div 24$.

$24 \times 60 = 1,440$ and $1,536 - 1,440 = 96$, and $24 \times 4 = 96$.

So the answer is $60 + 4 = 64$ boxes.

28. Answer: (D) 60

$$\text{Roses} = \frac{2}{7} \text{ of } 84 = (84 \div 7) \times 2 = 12 \times 2 = 24.$$

$$\text{Plants that are not roses} = 84 - 24 = \mathbf{60}.$$

$$(\text{Alternatively, these plants are } \frac{5}{7} \text{ of } 84 = 12 \times 5 = 60. \checkmark)$$

29. Answer: (D) 25

Reading the bars against the scale: Monday 30, Tuesday 45, Wednesday 20 and Thursday 35.

$$\text{Difference} = 45 - 20 = \mathbf{25} \text{ toys.}$$

30. Answer: (D) ₹4,750

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

$$= 2 \times (60 + 35) = 2 \times 95 = 190 \text{ m.}$$

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

31. Answer: (C) 2

Statement (i) is true, since 1,000 is indeed the smallest 4-digit number.

Statement (ii) is false: the LCM of 4 and 6 is 12, not 20.

Statement (iii) is true, since a regular hexagon has 6 equal sides.

Statement (iv) is false: 1 litre = 1,000 millilitres, not 100.

Exactly **2** statements are true.

32. Answer: (A) 1,907

$$\text{Notebooks sold} = 1,275 + 968 = 2,243.$$

$$\text{Notebooks left after the sale} = 3,500 - 2,243 = 1,257.$$

$$\text{Adding the new supply: } 1,257 + 650 = \mathbf{1,907} \text{ notebooks.}$$

33. Answer: (B) 13,709

Greatest: arrange the digits from largest to smallest → 9,640.

Smallest: a four-digit number cannot begin with 0, so the smallest non-zero digit goes first and the remaining digits follow in increasing order → 4,069.

$$\text{Sum} = 9,640 + 4,069 = \mathbf{13,709}.$$

34. Answer: (C) P-1, Q-2, R-3, S-4

A square has 4 lines of symmetry, a circle has infinitely many, an equilateral triangle has 3 (one through each vertex) and a rectangle that is not a square has 2 (through the midpoints of opposite sides). This gives the matching P-1, Q-2, R-3, S-4.

35. Answer: (A) 340

$$\text{Water that flowed out} = 25 \times 8 = 200 \text{ litres.}$$

$$\text{Water remaining} = 500 - 200 = 300 \text{ litres.}$$

$$\text{After adding 40 litres back: } 300 + 40 = \mathbf{340 \text{ litres.}}$$