

Full Practice Exam — Set 1

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? 5, 10, 15, 20, ____
 (A) 22 (B) 24
 (C) 25 (D) 30
- Find the **odd one out**: 12, 18, 25, 30
 (A) 12 (B) 18
 (C) 25 (D) 30
- What comes next in the letter series? B, D, F, H, ____
 (A) I (B) J
 (C) K (D) L
- Study the pattern in the top row. Which of the figures P, Q, R or S should come in place of the question mark?

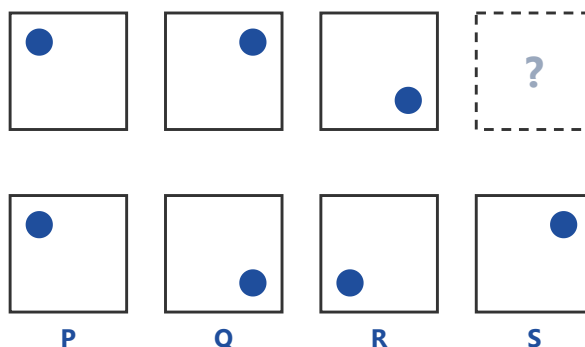


Fig. 4.1 — The dot moves one corner clockwise each time

- (A) P (B) Q
 (C) R (D) S
- In a certain code, MAT is written as 13-1-20. How is CAP written in the same code?
 (A) 3-1-16 (B) 3-1-15
 (C) 4-1-16 (D) 3-2-16

6. Which of the figures P, Q, R or S is the correct **mirror image** of the given figure about the dashed line?

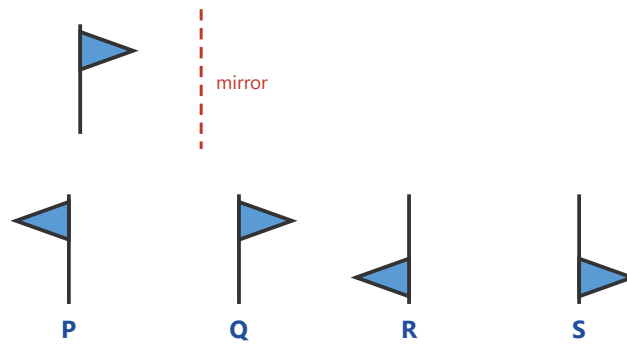


Fig. 6.1 — The flag and four possible mirror images

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

7. In a row of 12 children, Meena is 5th from the left end. What is her position from the right end?

- | | |
|---------|---------|
| (A) 6th | (B) 7th |
| (C) 9th | (D) 8th |

8. A boy is facing north. He turns 90° clockwise, and then turns 90° clockwise again. Which direction is he facing now?

- | | |
|-----------|-----------|
| (A) South | (B) West |
| (C) East | (D) North |

9. $3 : 9 :: 5 : \underline{\hspace{1cm}}$

- | | |
|--------|--------|
| (A) 10 | (B) 15 |
| (C) 25 | (D) 30 |

10. Which figure is the **odd one out**?



Fig. 10.1

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

Section 2 — Mathematical Reasoning

Q11–Q20 · 1 mark each

11. What is the place value of 7 in 47,653?

- | | |
|------------|-----------|
| (A) 7 | (B) 700 |
| (C) 70,000 | (D) 7,000 |

12. The Roman numeral for 29 is _____.

- | | |
|----------|------------|
| (A) XXIX | (B) XXVIII |
| (C) IXXX | (D) XIXX |

13. $246 \times 8 = \underline{\hspace{1cm}}$

- | | |
|-----------|-----------|
| (A) 1,848 | (B) 1,928 |
| (C) 2,048 | (D) 1,968 |

14. When 425 is divided by 6, the remainder is _____.
(A) 3 (B) 4
(C) 5 (D) 70
15. The LCM of 6 and 8 is _____.
(A) 2 (B) 14
(C) 24 (D) 48
16. Which fraction is equivalent to $\frac{2}{3}$?
(A) $\frac{8}{12}$ (B) $\frac{6}{8}$
(C) $\frac{4}{9}$ (D) $\frac{3}{2}$
17. $4.7 + 2.85 =$ _____.
(A) 6.55 (B) 7.55
(C) 7.32 (D) 7.92
18. An angle measuring 95° is a/an _____ angle.
(A) Acute (B) Right
(C) Straight (D) Obtuse
19. The perimeter of a rectangle 14 cm long and 9 cm wide is _____.
(A) 46 cm (B) 32 cm
(C) 23 cm (D) 126 cm
20. How many lines of symmetry does a rectangle have?
(A) 1 (B) 2
(C) 4 (D) Infinitely many

Section 3 — Everyday Mathematics

Q21–Q30 · 1 mark each

21. A book costs ₹145. Riya buys 4 such books and pays with a ₹1,000 note. How much change does she get?
(A) ₹380 (B) ₹580
(C) ₹455 (D) ₹420
22. A film starts at 4:35 p.m. and ends at 6:50 p.m. How long is the film?
(A) 2 hours 15 minutes (B) 2 hours 5 minutes
(C) 2 hours 25 minutes (D) 3 hours 15 minutes
23. A rope is 5 m 40 cm long. A piece 1 m 75 cm long is cut off. What length of rope is left?
(A) 3 m 75 cm (B) 3 m 65 cm
(C) 4 m 35 cm (D) 4 m 65 cm
24. A jug holds 2 l 500 ml of juice. How many glasses of 250 ml each can be filled from it?
(A) 5 (B) 8
(C) 10 (D) 25
25. One bag of rice weighs 25 kg. What is the total weight of 8 such bags?
(A) 175 kg (B) 250 kg
(C) 225 kg (D) 200 kg

26. A school has 24 classrooms with 35 desks in each. How many desks are there in all?

- (A) 740 (B) 820
(C) 840 (D) 860

27. 1,260 pencils are packed into boxes of 15 pencils each. How many boxes are needed?

- (A) 74 (B) 84
(C) 94 (D) 104

28. In a school of 96 students, $\frac{3}{8}$ are girls. How many **boys** are there?

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

29. The bar graph shows the number of books read by four children in a year. How many **more** books did Bina read than Chetan?

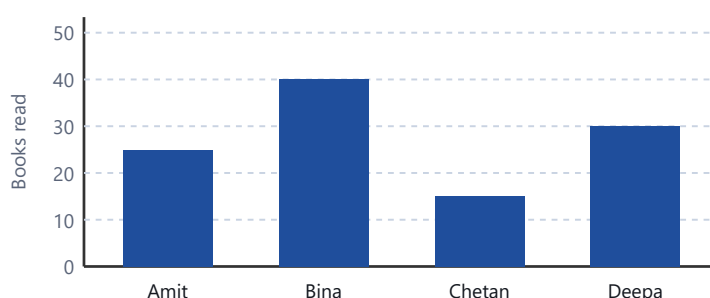


Fig. 29.1 — Books read in a year

- (A) 15 (B) 20
(C) 25 (D) 40

30. A square park has a side of 45 m. What is the cost of fencing it all round at ₹30 per metre?

- (A) ₹5,400 (B) ₹4,050
(C) ₹1,350 (D) ₹6,750

Achievers Section

Q31–Q35 · 2 marks each

31. A shopkeeper had 5,000 pens. He sold 1,845 pens in the first week and 2,378 pens in the second week. How many pens are left?

- (A) 767 (B) 777
(C) 787 (D) 823

32. Matchsticks are used to build hexagons in a row: 1 hexagon needs 6 sticks, 2 hexagons need 11 sticks and 3 hexagons need 16 sticks. How many matchsticks are needed for **8** hexagons?

- (A) 36 (B) 41
(C) 46 (D) 48

33. Using the digits 5, 2, 8 and 0 **once each**, find the difference between the greatest and the smallest four-digit numbers that can be formed.

- (A) 6,362 (B) 6,462
(C) 6,472 (D) 6,552

34. A rectangular hall is 18 m long and 12 m wide. A square carpet of side 10 m is spread inside it. What area of the floor is left **uncovered**?
- (A) 106 m² (B) 216 m²
(C) 126 m² (D) 116 m²
35. Ravi's age is 3 times his sister's age. The sum of their ages is 24 years. How old is **Ravi**?
- (A) 18 years (B) 12 years
(C) 6 years (D) 20 years

Answer Key

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

Solutions

1. Answer: (C) 25

Each number is 5 more than the one before it.
 $20 + 5 = \mathbf{25}$.

2. Answer: (C) 25

12, 18 and 30 are all multiples of 6 and all even. **25** is neither even nor a multiple of 6, so it is the odd one out.

3. Answer: (B) J

Each letter skips one: B, (C), D, (E), F, (G), H, (I), **J**. So the next letter is J.

4. Answer: (C) R

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

5. Answer: (A) 3-1-16

Each letter is replaced by its position in the alphabet: M = 13, A = 1, T = 20.
So C = 3, A = 1 and P = 16, giving **3-1-16**.

6. Answer: (A) P

A mirror swaps left and right but never turns a figure upside down. The flag points to the **right** near the **top** of the pole, so its mirror image points to the **left**, still near the top — that is figure **P**. Q is unchanged, and R and S have the flag at the bottom.

7. Answer: (D) 8th

Position from the right = total – position from the left + 1
 $= 12 - 5 + 1 = \mathbf{8th}$.
(Check: 4 children stand to her left and 7 to her right, and $4 + 1 + 7 = 12$. ✓)

8. Answer: (A) South

Turning 90° clockwise from north takes him to east. A second 90° clockwise turn takes him from east to **south**.

9. Answer: (C) 25

The second number is the first multiplied by itself: $3 \times 3 = 9$.
So $5 \times 5 = \mathbf{25}$.

10. Answer: (D) S

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

11. Answer: (D) 7,000

Reading from the right: 3 ones, 5 tens, 6 hundreds, **7 thousands** and 4 ten thousands.
So the place value of 7 is $7 \times 1,000 = \mathbf{7,000}$.

12. Answer: (A) XXIX

$29 = 20 + 9$. Twenty is XX and nine is IX, so 29 is written **XXIX**. A symbol is never repeated more than three times, which rules out XXVIII.

13. Answer: (D) 1,968

Ones: $6 \times 8 = 48$, write 8 and carry 4.
Tens: $4 \times 8 = 32$, plus 4 = 36, write 6 and carry 3.
Hundreds: $2 \times 8 = 16$, plus 3 = 19.
Product = **1,968**.

14. Answer: (C) 5

$6 \times 70 = 420$, which is the largest multiple of 6 not more than 425.
Remainder = $425 - 420 = \mathbf{5}$. (The quotient is 70.)

15. Answer: (C) 24

Multiples of 6: 6, 12, 18, **24**, 30...

Multiples of 8: 8, 16, **24**, 32...

The smallest number in both lists is **24**.

16. Answer: (A) $\frac{8}{12}$

Multiplying both the numerator and the denominator of $\frac{2}{3}$ by 4 gives $\frac{8}{12}$.

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

17. Answer: (B) 7.55

Line up the decimal points and write 4.7 as 4.70.

$4.70 + 2.85 = \mathbf{7.55}$.

18. Answer: (D) Obtuse

An **obtuse** angle is more than 90° but less than 180° . Since 95° lies between them, it is obtuse.

19. Answer: (A) 46 cm

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

$= 2 \times (14 + 9) = 2 \times 23 = \mathbf{46 \text{ cm}}$.

20. Answer: (B) 2

A rectangle can be folded down the middle vertically and across the middle horizontally, giving **2** lines of symmetry. Its diagonals are not lines of symmetry, although a square's are.

21. Answer: (D) ₹420

Cost of 4 books = $4 \times 145 = \text{₹}580$.

Change = $1,000 - 580 = \mathbf{\text{₹}420}$.

22. Answer: (A) 2 hours 15 minutes

From 4:35 p.m. to 6:35 p.m. is 2 hours.

From 6:35 p.m. to 6:50 p.m. is a further 15 minutes.

Total = **2 hours 15 minutes**.

23. Answer: (B) 3 m 65 cm

Change to centimetres: 5 m 40 cm = 540 cm and 1 m 75 cm = 175 cm.

$540 - 175 = 365 \text{ cm} = \mathbf{3 \text{ m } 65 \text{ cm}}$.

24. Answer: (C) 10

$2 \text{ l } 500 \text{ ml} = 2,500 \text{ ml}$.

Number of glasses = $2,500 \div 250 = \mathbf{10}$.

25. Answer: (D) 200 kg

Total weight = $8 \times 25 = \mathbf{200 \text{ kg}}$.

26. Answer: (C) 840

$24 \times 35 = 24 \times 30 + 24 \times 5$

$= 720 + 120 = \mathbf{840}$ desks.

27. Answer: (B) 84

$1,260 \div 15$.

$15 \times 80 = 1,200$ and $1,260 - 1,200 = 60$, and $15 \times 4 = 60$.

So the answer is $80 + 4 = \mathbf{84}$ boxes.

28. Answer: (C) 60

$$\text{Girls} = \frac{3}{8} \text{ of } 96 = (96 \div 8) \times 3 = 12 \times 3 = 36.$$

$$\text{Boys} = 96 - 36 = \mathbf{60}.$$

$$(\text{Alternatively, boys are } \frac{5}{8} \text{ of } 96 = 12 \times 5 = 60. \checkmark)$$

29. Answer: (C) 25

Reading the bars against the scale: Amit 25, Bina 40, Chetan 15 and Deepa 30.

$$\text{Difference} = 40 - 15 = \mathbf{25} \text{ books.}$$

30. Answer: (A) ₹5,400

$$\text{Perimeter of the square} = 4 \times 45 = 180 \text{ m.}$$

$$\text{Cost} = 180 \times 30 = \mathbf{₹5,400}.$$

31. Answer: (B) 777

First find the total sold.

$$1,845 + 2,378 = 4,223 \text{ pens.}$$

$$\text{Pens left} = 5,000 - 4,223 = \mathbf{777}.$$

32. Answer: (B) 41

After the first hexagon, each extra one adds only 5 sticks, because one side is shared.

$$\text{Sticks} = 6 + 5 \times (\text{number of extra hexagons})$$

$$\text{For 8 hexagons: } 6 + 5 \times 7 = 6 + 35 = \mathbf{41} \text{ sticks.}$$

Check the pattern: 6, 11, 16, 21, 26, 31, 36, 41. ✓

33. Answer: (B) 6,462

Greatest: arrange from largest to smallest → 8,520.

Smallest: a four-digit number cannot begin with 0, so the smallest non-zero digit goes first and the 0 comes next → 2,058.

$$\text{Difference} = 8,520 - 2,058 = \mathbf{6,462}.$$

34. Answer: (D) 116 m²

$$\text{Area of the hall} = 18 \times 12 = 216 \text{ m}^2.$$

$$\text{Area of the carpet} = 10 \times 10 = 100 \text{ m}^2.$$

$$\text{Uncovered area} = 216 - 100 = \mathbf{116 \text{ m}^2}.$$

35. Answer: (A) 18 years

Let the sister's age be 1 part, so Ravi's age is 3 parts.

Together they make $1 + 3 = 4$ parts = 24 years.

$$\text{So 1 part} = 24 \div 4 = 6 \text{ years.}$$

$$\text{Ravi's age} = 3 \text{ parts} = 3 \times 6 = \mathbf{18 \text{ years.}}$$

Check: $18 + 6 = 24$, and 18 is 3 times 6. ✓