

Full Practice Exam — Set 2

Mathematics · Class 3 · Full Syllabus Practice Exam

TIME 60 minutes	QUESTIONS 35	TOTAL MARKS 40	MAX. SCORE ____ / 40
--------------------	-----------------	-------------------	-------------------------

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? 5, 10, 15, 20, ____
 (A) 24 (B) 25
 (C) 30 (D) 22
- Find the **odd one out**: 16, 36, 40, 49
 (A) 16 (B) 36
 (C) 40 (D) 49
- What comes next in the letter series? A, D, G, J, ____
 (A) K (B) L
 (C) M (D) N
- Which digit looks exactly the same when seen in a mirror (a left-right reflection)?
 (A) 2 (B) 6
 (C) 8 (D) 9
- In a certain code, MAT is written as 13-1-20. How is CAT written in the same code?
 (A) 3-1-19 (B) 2-1-20
 (C) 3-1-20 (D) 3-2-20

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

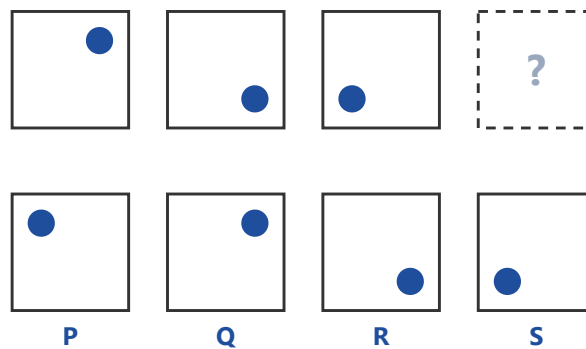


Fig. 6.1 — The dot moves one corner clockwise each time

- (A) P (B) Q
(C) R (D) S
7. If 1 March is a Sunday, what day of the week is 22 March?
(A) Sunday (B) Saturday
(C) Monday (D) Friday
8. Pointing to a boy, a woman said, 'He is the son of my mother's only son.' How is the boy related to the woman?
(A) Brother (B) Nephew
(C) Son (D) Cousin
9. In a row of children, Rahul is 12th from the left and 9th from the right. How many children are there in the row?
(A) 19 (B) 20
(C) 21 (D) 22
10. A boy walks 9 m north, then turns left and walks 12 m. How far is he from his starting point?
(A) 3 m (B) 21 m
(C) 15 m (D) 108 m

Section 2 — Mathematical Reasoning

Q11–Q20 · 1 mark each

11. 1 metre is equal to _____ centimetres.
(A) 10,000 (B) 10
(C) 1,000 (D) 100
12. What is the place value of 8 in 3,586?
(A) 80 (B) 8
(C) 800 (D) 8,000
13. The Roman numeral for 29 is _____.
(A) XXIII (B) XXIX
(C) IXXX (D) XXXI
14. $246 \times 3 =$ _____.
(A) 728 (B) 748
(C) 636 (D) 738

15. When 67 is divided by 8, the remainder is _____.

(A) 3

(B) 1

(C) 2

(D) 4

16. $\frac{3}{8}$ of 40 is _____.

(A) 10

(B) 15

(C) 12

(D) 18

17. The perimeter of a rectangle of length 12 cm and breadth 7 cm is _____.

(A) 19 cm

(B) 84 cm

(C) 38 cm

(D) 76 cm

18. Which fraction is smaller, $\frac{2}{5}$ or $\frac{3}{7}$?

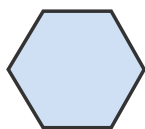
(A) They are equal

(B) Cannot say

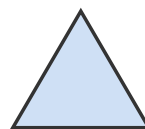
(C) $\frac{3}{7}$

(D) $\frac{2}{5}$

19. Look at the two figures below. What is the total number of sides in both figures together?



Hexagon



Triangle

Fig. 19.1

(A) 9

(B) 8

(C) 10

(D) 7

20. Using the digits 0, 3, 5 and 8 exactly once each, what is the smallest 4-digit number that can be formed?

(A) 3,508

(B) 3,085

(C) 5,038

(D) 3,058

Section 3 — Everyday Mathematics

Q21–Q30 · 1 mark each

21. A stadium had 2,356 men and 1,987 women in the audience. How many people were there in all?

(A) 4,343

(B) 4,243

(C) 4,443

(D) 4,333

22. A theatre has 18 rows with 15 seats in each row. How many seats are there in all?

(A) 33

(B) 270

(C) 260

(D) 280

23. A ribbon of 84 m is cut into pieces of 7 m each. How many pieces are obtained?

(A) 10

(B) 14

(C) 12

(D) 77

24. Aman has ₹945 and Vikram has ₹678. How much **more** money does Aman have?

(A) ₹257

(B) ₹267

(C) ₹1,623

(D) ₹277

25. A can holds $2\frac{3}{4}$ litres of oil. It is poured equally into bottles of $\frac{1}{8}$ litre each. How many bottles are filled?
- (A) 22 (B) 18
(C) 20 (D) 24
26. A train leaves the station at 9:20 a.m. and reaches its destination at 1:05 p.m. How long is the journey?
- (A) 3 hours 35 minutes (B) 4 hours 15 minutes
(C) 3 hours 45 minutes (D) 3 hours 55 minutes
27. A sack had 40 kg of rice. 12 kg 400 g was used for cooking. How much rice is left?
- (A) 27 kg 400 g (B) 28 kg 600 g
(C) 27 kg 800 g (D) 27 kg 600 g
28. The bar graph shows the number of storybooks read by four children last month. What is the total number of storybooks read by all four children?

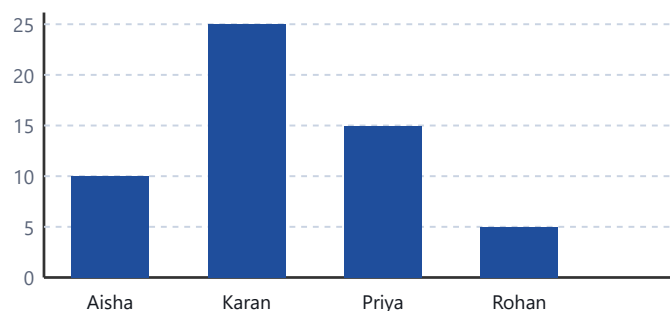


Fig. 28.1 — Storybooks read by four children

- (A) 50 (B) 60
(C) 65 (D) 55
29. A rectangular field is 30 m long and 20 m wide. What is the cost of fencing it at ₹15 per metre?
- (A) ₹1,500 (B) ₹750
(C) ₹3,000 (D) ₹4,500
30. Geeta saves ₹25 every week. She also received a one-time gift of ₹50. How much money will she have in total after 9 weeks?
- (A) ₹250 (B) ₹275
(C) ₹300 (D) ₹225

Achievers Section

Q31–Q35 · 2 marks each

31. A number is 320 less than 875. What is 275 **more** than that number?
- (A) 830 (B) 820
(C) 835 (D) 875
32. A vendor bought 1,800 mangoes. He sold 540 on Saturday and 375 on Sunday. How many mangoes are still unsold?
- (A) 915 (B) 885
(C) 865 (D) 995
33. The perimeter of a rectangle is 46 cm and its breadth is 9 cm. What is its area?
- (A) 117 cm^2 (B) 108 cm^2
(C) 126 cm^2 (D) 130 cm^2

34. In a class of 45 students, $\frac{1}{3}$ like mangoes and $\frac{2}{9}$ like grapes. No student likes both fruits. How many students like **neither** fruit?

(A) 25

(B) 15

(C) 30

(D) 20

35. Study the statements below.

(i) The product of two even numbers is always even.

(ii) The sum of two odd numbers is always odd.

(iii) Every multiple of 4 is also a multiple of 2.

(iv) Zero is a multiple of every number.

How many of the above statements are TRUE?

(A) 1

(B) 2

(C) 4

(D) 3

Answer Key

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

Solutions

1. Answer: (B) 25

Each number is 5 more than the one before it.

$$20 + 5 = \mathbf{25}.$$

2. Answer: (C) 40

$16 = 4 \times 4$, $36 = 6 \times 6$ and $49 = 7 \times 7$ — each is a number multiplied by itself. **40** is not, so it is the odd one out.

3. Answer: (C) M

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

4. Answer: (C) 8

A mirror flips a shape from left to right. The digits 2 and 6 turn into different-looking shapes when flipped, and 6 simply turns into 9. Only **8** has two matching loops on either side of a vertical line, so it looks exactly the same in the mirror.

5. Answer: (C) 3-1-20

Each letter is replaced by its position in the alphabet: M = 13, A = 1, T = 20.

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

6. Answer: (A) P

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

7. Answer: (A) Sunday

22 March is 21 days after 1 March, and 21 is exactly 3 weeks (3×7). So the day of the week repeats: **Sunday**.

8. Answer: (B) Nephew

The woman's mother's only son is the woman's brother.

The boy is the son of that brother, so the boy is the woman's **nephew**.

9. Answer: (B) 20

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

$$\text{Total} = 12 + 9 - 1 = \mathbf{20}.$$

10. Answer: (C) 15 m

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

$$\text{Distance} = \sqrt{9^2 + 12^2} = \sqrt{81 + 144} = \sqrt{225} = \mathbf{15 \text{ m}}.$$

11. Answer: (D) 100

$$1 \text{ metre} = \mathbf{100} \text{ centimetres}.$$

12. Answer: (A) 80

Reading from the right, 6 ones, 8 tens, 5 hundreds and 3 thousands.

So the place value of 8 is $8 \times 10 = \mathbf{80}$.

13. Answer: (B) XXIX

$29 = 20 + 9$. Twenty is XX and nine is IX, so 29 is written **XXIX**.

14. Answer: (D) 738

Ones: $6 \times 3 = 18$, write 8 carry 1.

Tens: $4 \times 3 = 12$, $+1 = 13$, write 3 carry 1.

Hundreds: $2 \times 3 = 6$, $+1 = 7$.

Product = **738**.

15. Answer: (A) 3

$8 \times 8 = 64$, the largest multiple of 8 not more than 67.

$$\text{Remainder} = 67 - 64 = \mathbf{3}.$$

16. Answer: (B) 15

$$\frac{1}{8} \text{ of } 40 = 5.$$

$$\frac{3}{8} \text{ of } 40 = 3 \times 5 = \mathbf{15}.$$

17. Answer: (C) 38 cm

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

$$\text{Perimeter} = 2 \times (12 + 7) = 2 \times 19 = \mathbf{38 \text{ cm}}.$$

18. Answer: (D) $\frac{2}{5}$

Write both with denominator 35: $\frac{2}{5} = \frac{14}{35}$ and $\frac{3}{7} = \frac{15}{35}$.

Since $14 < 15$, $\frac{2}{5}$ is smaller.

19. Answer: (A) 9

The first figure is a hexagon, which has 6 sides. The second figure is a triangle, which has 3 sides.

$$\text{Total sides} = 6 + 3 = \mathbf{9}.$$

20. Answer: (D) 3,058

The thousands digit cannot be 0, so it should be the smallest non-zero digit: 3.

The remaining digits 0, 5 and 8 are then placed in increasing order.

Smallest number = **3,058**.

21. Answer: (A) 4,343

Ones: $6+7=13$, write 3 carry 1.

Tens: $5+8+1=14$, write 4 carry 1.

Hundreds: $3+9+1=13$, write 3 carry 1.

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

Total = **4,343** people.

22. Answer: (B) 270

18 rows $\times$ 15 seats each.

$$18 \times 15 = 18 \times 10 + 18 \times 5 = 180 + 90 = \mathbf{270 \text{ seats}}.$$

23. Answer: (C) 12

$$84 \div 7 = \mathbf{12 \text{ pieces}}.$$

24. Answer: (B) ₹267

$$945 - 678 = \mathbf{₹267}.$$

25. Answer: (A) 22

$$2\frac{3}{4} = \frac{11}{4} \text{ litres.}$$

$$\text{Number of bottles} = \frac{11}{4} \div \frac{1}{8} = \frac{11}{4} \times 8 = \mathbf{22 \text{ bottles}}.$$

26. Answer: (C) 3 hours 45 minutes

From 9:20 a.m. to 12:20 p.m. is 3 hours, and from 12:20 p.m. to 1:05 p.m. is a further 45 minutes.

Total journey time = 3 hours + 45 minutes = **3 hours 45 minutes**.

27. Answer: (D) 27 kg 600 g

Write 40 kg as 39 kg 1,000 g to subtract.

$$39 \text{ kg } 1,000 \text{ g} - 12 \text{ kg } 400 \text{ g} = \mathbf{27 \text{ kg } 600 \text{ g}}.$$

28. Answer: (D) 55

Reading the bars: Aisha 10, Karan 25, Priya 15, Rohan 5.

$$\text{Total} = 10 + 25 + 15 + 5 = \mathbf{55}.$$

29. Answer: (A) ₹1,500

Perimeter = $2 \times (30 + 20) = 2 \times 50 = 100$ m.

Cost of fencing = $100 \times 15 = \text{₹}1,500$.

30. Answer: (B) ₹275

Savings in 9 weeks = $25 \times 9 = \text{₹}225$.

Adding the gift: $225 + 50 = \text{₹}275$.

31. Answer: (A) 830

First find the number: $875 - 320 = 555$.

Now add 275: $555 + 275 = 830$.

32. Answer: (B) 885

Total sold = $540 + 375 = 915$ mangoes.

Unsold = $1,800 - 915 = 885$ mangoes.

33. Answer: (C) 126 cm^2

Length + breadth = $46 \div 2 = 23$ cm, so length = $23 - 9 = 14$ cm.

Area = $14 \times 9 = 126 \text{ cm}^2$.

34. Answer: (D) 20

Mangoes: $\frac{1}{3}$ of 45 = 15 students. Grapes: $\frac{2}{9}$ of 45 = 10 students.

Liking a fruit: $15 + 10 = 25$ students.

Liking neither: $45 - 25 = 20$ students.

35. Answer: (D) 3

Statement (i) is true — two even numbers multiplied always give an even product. Statement (ii) is false — the sum of two odd numbers is always even, not odd. Statement (iii) is true — every multiple of 4, such as 4, 8 and 12, is also a multiple of 2. Statement (iv) is true — zero equals any number multiplied by zero, so it is a multiple of every number.

Number of true statements = **3**.