



PRACTICE TEST · CLASSES 3 TO 5

Maths Olympiad Practice Test for Classes 3 to 5

Twenty-five questions in the four sections of the SOF IMO paper: logical reasoning, mathematical reasoning, everyday mathematics and the achievers section. Take it here and check your score, or print it and time yourself.

Maths Olympiad

Primary

01 Before you start**Time** – 30 minutes, with a clock in view**Marks** – 1 mark for each question in Sections 1 to 3 and 2 marks in the Achievers section: 29 marks in all**Wrong answers** – no marks are taken off, so answer every question**The real paper** – the SOF IMO has 35 questions for 40 marks for Classes 3 and 4, and 50 questions for 60 marks from Class 5, in 60 minutes**02 Logical reasoning**

1 mark each

- 1 Find the next number: 3, 6, 12, 24, ____
(A) 36 (B) 48 (C) 42 (D) 30
- 2 Find the missing number: 1, 4, 9, 16, 25, ____
(A) 30 (B) 34 (C) 36 (D) 49
- 3 If CAT is written as DBU, how is DOG written?
(A) EPH (B) CNF (C) EPG (D) DPH
- 4 Rohan faces north and turns right. Then he turns right again. Which way is he facing now?
(A) North (B) East (C) West (D) South
- 5 In a class of 30 children, Neha is 12th from the top. What is her rank from the bottom?
(A) 18th (B) 19th (C) 20th (D) 17th
- 6 Bird is to nest as bee is to ____
(A) honey (B) flower (C) hive (D) wing

03 Mathematical reasoning

1 mark each

- 7 What is the place value of 7 in 47,382?
(A) 7 (B) 700 (C) 70,000 (D) 7,000

- 8 Which fraction is the largest?
(A) $\frac{1}{2}$ (B) $\frac{3}{4}$ (C) $\frac{1}{3}$ (D) $\frac{2}{5}$
- 9 What is the LCM of 4 and 6?
(A) 12 (B) 2 (C) 24 (D) 10
- 10 Round 3,467 to the nearest hundred.
(A) 3,400 (B) 3,470 (C) 3,500 (D) 4,000
- 11 Which of these is a prime number?
(A) 21 (B) 27 (C) 33 (D) 29
- 12 The perimeter of a square is 36 cm. How long is each side?
(A) 6 cm (B) 9 cm (C) 12 cm (D) 18 cm
- 13 How many lines of symmetry does a rectangle that is not a square have?
(A) 2 (B) 1 (C) 4 (D) 0
- 14 $0.5 + 0.25 =$ ____
(A) 0.30 (B) 0.525 (C) 0.75 (D) 0.70

04 Everyday mathematics

1 mark each

- 15 A film starts at 4:45 pm and lasts 1 hour 50 minutes. When does it end?
(A) 6:25 pm (B) 6:45 pm (C) 5:35 pm (D) 6:35 pm
- 16 Aarav saves ₹25 every week. How much will he save in 12 weeks?
(A) ₹250 (B) ₹300 (C) ₹275 (D) ₹325
- 17 A box holds 24 crayons. How many boxes are needed to pack 150 crayons?
(A) 7 (B) 6 (C) 8 (D) 5
- 18 3 notebooks cost ₹90. What do 5 notebooks cost?
(A) ₹120 (B) ₹135 (C) ₹150 (D) ₹180

19 Which is heavier: 1 kg of cotton or 1,000 g of iron?

- (A) Neither: they weigh the same
- (B) Cotton
- (C) Iron
- (D) We cannot tell

20 A garden is 12 m long and 8 m wide. What is its area?

- (A) 40 m^2
- (B) 20 m^2
- (C) 80 m^2
- (D) 96 m^2

21 A 45-minute class starts at 10:00 am and is followed by a 15-minute break. When does the break end?

- (A) 10:45 am
- (B) 11:00 am
- (C) 11:15 am
- (D) 11:45 am

05 Achievers section

2 marks each

22 Three numbers in a row (like 4, 5, 6) add up to 48. What is the largest of them?

- (A) 15
- (B) 16
- (C) 18
- (D) 17

23 How many squares of any size are there in a 2×2 grid of squares?

- (A) 5
- (B) 4
- (C) 6
- (D) 8

24 A number is multiplied by 6 and then 4 is taken away. The answer is 50. What is the number?

- (A) 8
- (B) 9
- (C) 7
- (D) 10

25 Ria has 12 coins, some ₹10 and some ₹5. Together they are worth ₹95. How many ₹10 coins does she have?

- (A) 5
- (B) 6
- (C) 7
- (D) 8

Answers and explanations

- 1 **B** Each number is double the one before: $24 \times 2 = 48$.
- 2 **C** These are square numbers: 1×1 , 2×2 , 3×3 and so on, so the next is $6 \times 6 = 36$.
- 3 **A** Each letter moves one step forward in the alphabet: D $\rightarrow$ E, O $\rightarrow$ P, G $\rightarrow$ H.
- 4 **D** North, turn right: east. Turn right again: south.
- 5 **B** Rank from the bottom = $30 - 12 + 1 = 19$.
- 6 **C** A bird lives in a nest; a bee lives in a hive.
- 7 **D** 7 is in the thousands place: $7 \times 1,000 = 7,000$.
- 8 **B** $3/4 = 0.75$, which is more than $1/2 = 0.5$, $2/5 = 0.4$ and $1/3$.
- 9 **A** Multiples of 4: 4, 8, 12 ... Multiples of 6: 6, 12 ... The first number in both lists is 12.
- 10 **C** The tens digit is 6, which is 5 or more, so round up to 3,500.
- 11 **D** $21 = 3 \times 7$, $27 = 3 \times 9$ and $33 = 3 \times 11$, but 29 has no factors except 1 and itself.
- 12 **B** A square has 4 equal sides: $36 \div 4 = 9$ cm.
- 13 **A** One line across the middle and one down the middle. The diagonals are not lines of symmetry.
- 14 **C** Line up the decimal points: $0.50 + 0.25 = 0.75$.
- 15 **D** $4:45 + 1$ hour = $5:45$, and 50 minutes more is $6:35$.
- 16 **B** $25 \times 12 = 300$.
- 17 **A** 6 boxes hold 144 crayons. The other 6 crayons need one more box: 7 boxes.
- 18 **C** One notebook costs $90 \div 3 = ₹30$, so 5 cost ₹150.
- 19 **A** 1 kg = 1,000 g, so both weigh the same.
- 20 **D** Area of a rectangle = length $\times$ width = $12 \times 8 = 96$ square metres.
- 21 **B** $45 + 15 = 60$ minutes, so the break ends one hour after 10:00, at 11:00.
- 22 **D** $48 \div 3 = 16$ is the middle number, so the numbers are 15, 16 and 17.
- 23 **A** 4 small squares and 1 big square: 5.
- 24 **B** Work backwards: $50 + 4 = 54$, and $54 \div 6 = 9$.
- 25 **C** If all 12 were ₹5 coins they would make ₹60. Each ₹10 coin adds ₹5 more, and she needs ₹35 more: $35 \div 5 = 7$.

How to use this test

- 1 Do the questions you are sure of first, then come back to the rest.
- 2 Check answers by working backwards, as in question 24.
- 3 Learn tables to 20 and squares to 15×15 : they save time in every section.

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