



EXCELLENCE IN EDUCATION

International Olympiad Foundation

14+

OLYMPIADS

MCQ

FORMAT

0

NEGATIVE MARKS

SAMPLE PAPER

International Olympiad Foundation

OLYMPIAD

Mathematics Olympiad

International Olympiad Foundation (IOF) · www.iof.education

CLASS / GRADE

Class 4

SUBJECT

IFMO

DURATION

60 Min

MAX MARKS

35

GENERAL INSTRUCTIONS

- All questions are Multiple Choice Questions (MCQs) with options A, B, C, D, E
- Each correct answer carries 1 mark. No negative marking for wrong answers.
- Rough work should be done separately. Do not write on question paper.

PAPER HIGHLIGHTS

• Multiple Choice Questions (MCQ)

Five options per question (A, B, C, D, E). Select the single most appropriate answer.

• No Negative Marking

1 mark per correct answer. Zero deductions — attempt every question.

• Conducted by IOF

International Olympiad Foundation — fostering excellence among students across India.

SUBJECTS

- Cyber
- English
- Entrepreneurship
- Mathematics
- Commerce
- Economics
- GK & Current Affairs
- Science
- Western Music
- Sanskrit
- Indian Music
- Hindi
- Reasoning & Aptitude
- Spell Talent

ALL IOF OLYMPIAD PROGRAMMES

| | | | | | | |
|---|---|---|--|--|---|--|
| IFCO International Foundation Cyber Olympiad | IFEO International Foundation English Olympiad | IFEnO International Foundation Entrepreneurship Olympiad | IFMO International Foundation Mathematics Olympiad | ICS Institute of Company Secretaries of India Commerce Olympiad | IFeCO International Foundation Economics Olympiad | IFGCO International Foundation General Knowledge & Current Affairs Olympiad |
| IFSO International Foundation Science Olympiad | IFWMuO International Foundation Western Music Olympiad | IFSaO International Foundation Sanskrit Olympiad | IFIMuO International Foundation Indian Music Olympiad | IFHO International Foundation Hindi Olympiad | IFRAO International Foundation Reasoning & Aptitude Olympiad | IFSTO International Foundation Spell Talent Olympiad |

Q1. Select the lettered pair that has the same relationship as the original pair of words.

[+1]
[-0]

Inherit : Acquire

- A. Hierarchial : Succession
- B. Instinct : Habit
- C. Loss : Gain
- D. Learn : Discover
- E. None of these

Q2. Choose the number which will complete the second pair in the same way as first pair.

[+1]
[-0]

3 : 10 :: 7 : ____

- A. 49
- B. 50
- C. 51
- D. 15
- E. None of these

Q3. Choose the word which is least like the other words in the group.

[+1]
[-0]

Geometry , Algebra , Mathematics , Arithmetic

- A. Geometry
- B. Algebra
- C. Mathematics
- D. Arithmetic
- E. None of these

Q4. Choose the pair in which the words are differently related.

[+1]
[-0]

- A. Beans : Pulses
- B. Rice : Cereals
- C. Tea : Beverages
- D. Legumes : Nodules
- E. None of these

Q5. Choose the correct option that will complete the series.

[+1]
[-0]

1, 6, 15, ?, 45, 66, 91

- A. 25
- B. 26
- C. 27
- D. 28
- E. None of these

Q6. If 'MAGIC' is '45876' , How is 'AICMG' is coded in that language?

[+1]
[-0]

- A. 57467
- B. 57368
- C. 58448
- D. 57648
- E. None of these

Q7. Arrange the given words as per order in the dictionary.

[+1]
[-0]

1. Bound 2. Bonus 3. Bunch 4. Board

- A. 1, 4, 2, 3
- B. 2, 4, 3, 1
- C. 4, 2, 1, 3
- D. 4, 3, 2, 1
- E. None of these

Q8. Neeru is 18th from the right end in a row of 30 students. What is her position from the left end?

[+1]
[-0]

- A. 12th
- B. 13th
- C. 14th
- D. 15th
- E. None of these

Q9. Pointing towards a boy, Veena said, "He is the son of only son of my grandfather." How is that boy related to Veena?

[+1]
[-0]

- A. Uncle
- B. Brother
- C. Cousin
- D. Nephew
- E. None of these

Q10. Choose the odd one out from the given options .

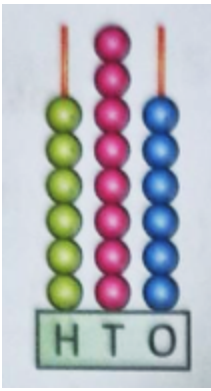
[+1]
[-0]

BD , CE , NL , FH

- A. BD
- B. CE
- C. NL
- D. FH
- E. None of these

Q11. How many beads should be removed from the tens place and hundreds place in the abacus shown here if it has to represent number 28 tens less than the number shown in the abacus.

[+1]
[-0]



- A. 2,2
- B. 8,2
- C. 2,1
- D. 3,0
- E. None of these

Q12. When # is added to 14 thousands, the answer is 450 tens more than 18 thousands. How many tens is # ?

[+1]
[-0]

- A. 85
- B. 850
- C. 56
- D. 805
- E. None of these

Q13. Find the divisor, if dividend= 88, quotient =12 and remainder = 4.

[+1]
[-0]

- A. 8
- B. 7
- C. 9
- D. 5
- E. None of these

Q14. Choose the correct option from the following.

[+1]
[-0]

- A. $256 = \text{CCLVII}$
- B. $408 \neq \text{CDVII}$
- C. $516 < \text{DCVI}$
- D. $1005 > \text{MD}$
- E. None of these

Q15. Mukti is 21 years old. Her father is thrice as old as she is. How old will she be when her father turns 70?

[+1]
[-0]

- A. 29years
- B. 28 years
- C. 27 years
- D. 30 years
- E. None of these

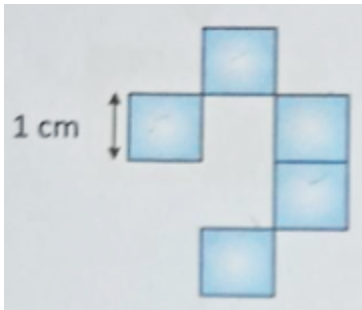
Q16. Which of the following statement is CORRECT?

[+1]
[-0]

- A. 154 beads can be divided equally into 4 and 7 bags.
- B. 1024 is a common multiple of 6 and 8
- C. 4 and 9 are common factors of 252 and 144.
- D. 7 is a factor of 28 and a multiple of 14
- E. None of these

Q17. How many more squares of side 1cm must be added to the figure to form a square of side 5cm?

[+1]
[-0]



- A. 9
- B. 11
- C. 20
- D. 25
- E. None of these

Q18. Prema wishes to buy a gold ring of 2g 50mg and a necklace weighing 12g 675mg. If she has a 8g gold chain which she wants to exchange for the jewellery, for how much gold does she have to pay?

[+1]
[-0]

- A. 8g 725mg
- B. 8g 752mg
- C. 6g 752mg
- D. 6g 725mg
- E. None of these

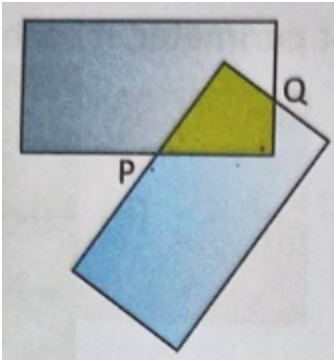
Q19. Rohan's mother has gone to her friend's house on 19th December 2013 and stayed there for 30 days. If 11th January 2014 is Saturday, then on which day Rohan's mother left her friend's house?

[+1]
[-0]

- A. Thursday
- B. Saturday
- C. Wednesday
- D. Friday
- E. None of these

Q20. The given figure is formed by two rectangles. The length of each rectangle is 16cm and its breadth is 10 cm. P and Q are the midpoints of the sides of the rectangles. Find the perimeter of the shaded part. (Figure not drawn to scale)

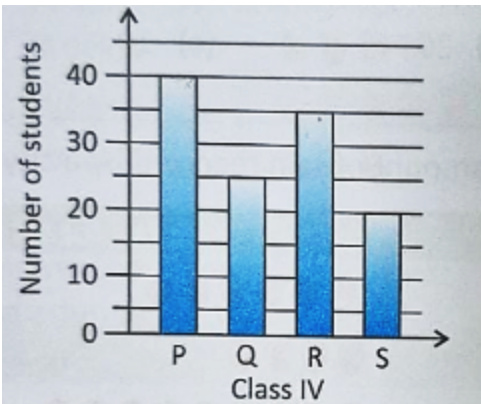
[+1]
[-0]



- A. 32
- B. 26
- C. 30
- D. 28
- E. None of these

Q21. The following graph shows the number of students of four sections (P, Q, R, S) of class IV. Find the difference between the sum of number of students of section P & R and the sum of number of students of sections Q & S.

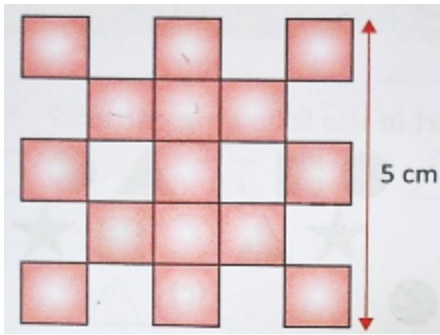
[+1]
[-0]



- A. 35
- B. 30
- C. 85
- D. 10
- E. None of these

Q22. On a square table of side 5 cm, a table cloth as shown in the figure is spread. Find the area of the table cloth.

[+1]
[-0]



- A. 10m^2
- B. 15m^2
- C. 20m^2
- D. 25m^2
- E. None of these

Q23. How many $\frac{1}{8}$ are there in $3\frac{1}{2}$?

[+1]
[-0]

- A. 26
- B. 28
- C. 30
- D. 22
- E. None of these

Q24. B is 125.254 less than A and C is equal to the sum of A and B. If $A=5440.211$. Find the value of $A+B+C$.

[+1]
[-0]

- A. 2151.0336
- B. 21510.336
- C. 21512.336
- D. 21010.336
- E. None of these

Q25. In a game of 'spinning the wheel', it takes about 2 seconds for the pin in going from one month to the next month in anticlockwise direction. If the wheel spins for about 30 seconds, then at which month the pin of the wheel stops?

[+1]
[-0]



- A. March
- B. February
- C. July
- D. January
- E. None of these

Q26. Which statement about $\frac{3}{4}$ and $\frac{9}{10}$ is true?

[+1]
[-0]

- A. $\frac{3}{4} = \frac{9}{10}$ because $4-3=1$ and $10-9=1$
- B. $\frac{3}{4} = \frac{9}{10}$ because $3+6=9$ and $4+6=10$
- C. $\frac{3}{4} < \frac{9}{10}$ because $3 < 9$ and $4 < 10$
- D. $\frac{3}{4} < \frac{9}{10}$ because $\frac{3}{4}$ is less than $\frac{4}{5}$ and $\frac{9}{10}$ is greater than $\frac{4}{5}$
- E. None of these

Q27. Louisa has some candies in her bag. She can give an equal number of pieces of candy to 5, 3 or 2 people. Which number of pieces of candy could be in Louisa's bag?

[+1]
[-0]

- A. 12
- B. 20
- C. 30
- D. 45
- E. None of these

Q28. How many letters in the English alphabet cannot be folded into two equal halves?

[+1]
[-0]

- A. 13
- B. 12
- C. 11
- D. 10
- E. None of these

Q29. Mr. Sharma's class is going on a field trip. In each of the 2 vans, there will be 7 children and 1 adult. In each of the 4 cars, there will be 4 children and 1 adult. How many people are going on the field trip?

[+1]
[-0]

- A. 17
- B. 30
- C. 36
- D. 38
- E. None of these

Q30. Rishabh's weight is 28kg. Deepali's weight is 4kg more than Rishabh's. What fraction of Rishabh's weight is Deepali's weight?

[+1]
[-0]

A. $\frac{1}{7}$

B. $\frac{7}{8}$

C. $\frac{8}{7}$

D. $\frac{8}{15}$

- E. None of these

Q31. It was 2320 hours when Jay reached home. If he spent 1hr 42min on the ride, what time did he board the bus?

[+1]
[-0]

- A. 9:30pm
- B. 10:38pm
- C. 9:38pm
- D. 9:38am
- E. None of these

Q32. Choose the correct option.

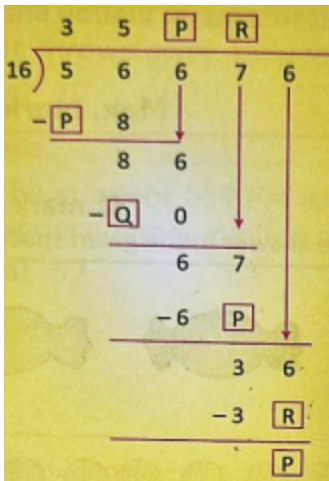
[+1]
[-0]

$\frac{1}{2}$ of Savi's money is equal to $\frac{1}{6}$ of Sangi's money. If both together have ₹600.
What is the difference between their amounts?

- A. 400
- B. 300
- C. 200
- D. 800
- E. None of these

Q33. Find the value of $(P \times Q) - R$.

[+1]
[-0]



- A. 24
- B. 28
- C. 20
- D. 30
- E. None of these

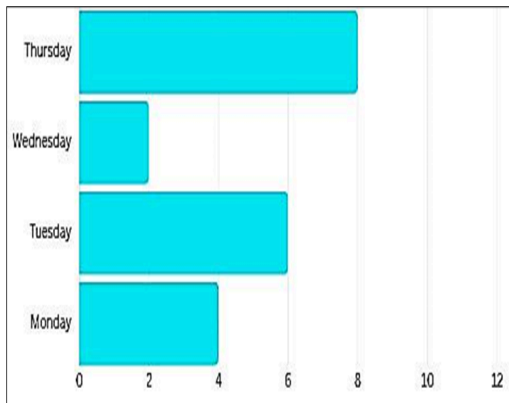
Q34. In a zoo, there were 15 lions and peacocks altogether. The number of heads was 25 less than the number of legs. How many peacocks were there?

[+1]
[-0]

- A. 20
- B. 15
- C. 10
- D. 5
- E. None of these

Q35. The graph shows the number of plants Krista and her friend planted each day in a garden. If each sapling requires 30 minutes to get planted and they started planting at 5 O'clock in the evening on Tuesday, then at what time Krista and her friends get their work done?

[+1]
[-0]



- A. 8:00am
- B. 8:00pm
- C. 7:00pm
- D. 7:30pm
- E. None of these



CLASS / GRADE

Class 4

SUBJECT

IFMO

TOTAL QUESTIONS

35

MAX MARKS

35

ANSWER SHEET — 35 QUESTIONS

| Q01-Q07 | ANS | Q08-Q14 | ANS | Q15-Q21 | ANS | Q22-Q28 | ANS | Q29-Q35 | ANS |
|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|
| Q01 | A | Q08 | B | Q15 | B | Q22 | B | Q29 | C |
| Q02 | B | Q09 | B | Q16 | C | Q23 | B | Q30 | B |
| Q03 | C | Q10 | C | Q17 | C | Q24 | B | Q31 | C |
| Q04 | D | Q11 | B | Q18 | D | Q25 | D | Q32 | B |
| Q05 | D | Q12 | B | Q19 | B | Q26 | D | Q33 | D |
| Q06 | D | Q13 | B | Q20 | B | Q27 | C | Q34 | C |
| Q07 | C | Q14 | C | Q21 | B | Q28 | D | Q35 | B |

◆ ALL IOF OLYMPIAD PROGRAMMES ◆

International Foundation
Cyber OlympiadInternational Foundation
English OlympiadInternational Foundation
Entrepreneurship OlympiadInternational Foundation
Mathematics OlympiadInstitute of Company
Secretaries of India
Commerce OlympiadInternational Foundation
Economics OlympiadInternational Foundation
General Knowledge &
Current Affairs OlympiadInternational Foundation
Science OlympiadInternational Foundation
Western Music OlympiadInternational Foundation
Sanskrit OlympiadInternational Foundation
Indian Music OlympiadInternational Foundation
Hindi OlympiadInternational Foundation
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