

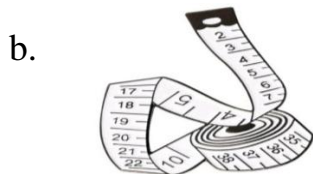


Delhi Public School Gandhinagar
Academic Session 2024-25
INTERNATIONAL MATHS
OLYMPIAD (IMO)

Student Name:	
Total Questions : 50	Guidelines for the Candidate
	Time : 1 hr
1.	Additional 10 minutes will be given to the students to fill up the students' information before the start of the exam.
2.	All questions are compulsory. There is no negative marking. Use of calculator is not permitted.
3.	Write your Roll no, Name and Class clearly on the answer sheet and do not forget to sign.
4.	There is only one correct answer hence mark one choice only.
5.	Darken your choice with HB pencil or Blue/Black ball point pen.
6.	Rough work should be done in the blank space provided in the booklet.
7.	Return the answer sheet to the invigilator at the end of the exam. The question paper can be retained by the student.

Tick the correct answer.

Q1. Which is the most appropriate object to measure the weight of a water melon?



Q 2. Chinki took 5 days to finish a book that had 50 pages. Number of pages she read daily is _____.

- a. 2
- b. 10
- c. 20
- d. 30

Q 3. Three glasses of water can fill a water-bottle. How many glasses of water are required to fill 4 such water-bottles?

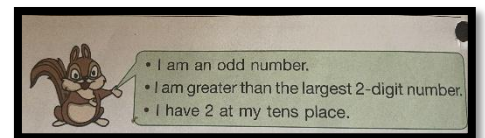
- a. 3
- b. 12
- c. 10
- d. 8

Q 4. Shweta had ₹ 500. She purchased a water bottle for ₹ 200 . How much money is left with her after shopping?

- a. ₹275
- b. ₹260
- c. ₹ 300
- d. ₹ 175

Q 5. Identify the number.

- a. 99
- b. 129
- c. 191
- d. 128



Q 6. Komal makes a paper boat in 20 minutes. How long will she take to make 6 such paper boats?

- a. 2 hours
- b. 6 hours 20 mins
- c. 1 hours 30 mins
- d. 40 mins

Q 7. Rajesh sold 359 kites in the first week of a month. If in the second week, 135 more kites were sold, then how many kites were sold in the two weeks altogether?

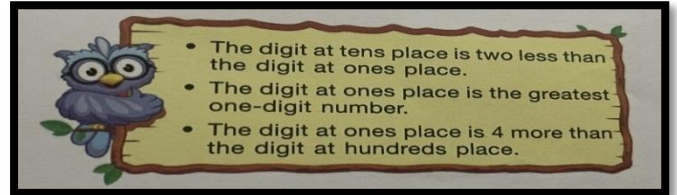
- a. 944
- b. 494
- c. 985
- d. 89

Q8. Select the INCORRECT option.

- a. 580 is greater than 59 tens.
- b. The number 810 is same as 8 hundreds and 1 tens.
- c. The smallest 3-digit number is 100.
- d. The place value of the digit 9 in 593 is 90.

Q9. Identify the 3- digit number.

- a. 458
- b. 568
- c. 579
- d. 719



Q10. Rohit’s school was closed for 5 days. Every day he did 2 fun activities based on Mathematics. How many total activities did he do during the holidays?

- a. 15
- b. 12
- c. 8
- d. 10

Q11. Fill in the blanks and select the CORRECT option.



- | (p) | (q) | (r) |
|----------------|----------------|----------------|
| a. Half past 7 | 15 mins past 4 | 10 mins past 7 |
| b. Half past 7 | 10 mins past 4 | 10 mins past 6 |
| c. Half past 7 | 10 mins past 4 | 10 mins to 6 |
| d. Half past 8 | 10 mins to 4 | 10 mins to 6 |

Q12. A tank contained 72 litres of water. Sneha drained 47 litres of water through a tap from the tank. How much water is left in the tank?

- a. 30 litres
- b. 25 litres
- c. 40 litres
- d. 50 litres

Q13. Varun saw the given painting in a shop. How many triangles did Varun see?

- a. 6
- b. 7
- c. 8
- d. 10



Q14. Ronit wants to buy the given items. How much money would he need in total?

- a. ₹630
- b. ₹545
- c. ₹680
- d. ₹650



Q15. Rubi planted some plants in a garden. The number of plants planted by her is more than 500 and has 8 at ones place. Which of the following can be a number of plants planted by her?

- a. 368
- b. 568
- c. 861
- d. 268

Q16. Most suitable addition sentence for the given figure is _____.

- a. $8+8+8$
- b. $3+3+3+3+3+3+3+3$
- c. $6+6+6+6$
- d. $4+4+4+4+4+4$



Q17. Sum of 25 tens and 13 more than 146 is _____.

- a. 409
- b. 990
- c. 490
- d. 492

Q18. Consider the given digits and fill in the blanks.



Difference of the smallest 3-digit number and largest 3-digit number formed by using the given digit is _____.

- a. 594
- b. 495
- c. 398
- d. 983

Q19. Kritika is 11 years old and her brother Sahil is 15 years old. How much older is Sahil than Kritika?

- a. 5years
- b. 6 years
- c. 4 years
- d. 7 years

Q26. One triangle has 3 sides. How many sides will 8 triangles have?





- a. 23 b. 24 c. 20 d. 15

Q27. Ram bought a teddy of Rs. 30 and a pencil box of Rs. 25. How much did he pay?

- a. Rs.40 c. Rs.50
b. Rs.35 d. Rs.55

Q28. The given pictograph shows the number of cupcakes sold in 4 different shops respectively. Study it carefully and answer the below question.

1  Cupcake = 10

Shop	Number of cupcakes
A	
B	
C	
D	

Number of brownies sold by shop A is _____.

- a. 20 b. 50 c. 30 d. 40

Q29. If Rashi goes for picnic on every Saturday and Sunday in the month of September 2022, then how many days will she go for picnic in that month?

- a. 15 c. 9
b. 10 d. 8

W	Sun	Mon	Tue	Wed	Thu	Fri	Sat
"					1	2	3
"	4	5	6	7	8	9	10
"	11	12	13	14	15	16	17
"	18	19	20	21	22	23	24
"	25	26	27	28	29	30	
"							

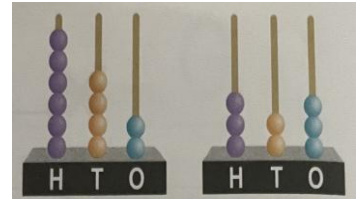
Q30. A sales woman wants to pack 60 baby corns in the boxes as shown. How many such boxes are required to pack all the baby corns?

- a. 9 b. 10 c. 21 d. 12



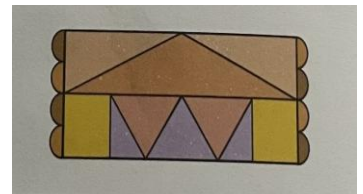
Q31. The sum of the numbers shown by two abacuses is _____.

- a. 868 c. 935
b. 965 d. 758

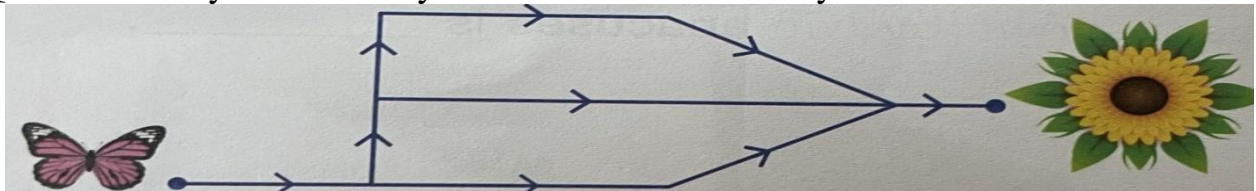


Q32. Which of the following shapes is missing in the given figure?

- a. Square c. Rectangle
b. Circle d. Triangle



Q33. How many different ways are there for the butterfly to reach the flower?



- a. 4 b. 5 c. 6 d. 3

Q34. Find the missing number in the number patterns.

1,2,4,8,16,_____

- a. 31 b. 32 c. 34 d. 36

Q35. 5 hundreds, 1 ones and 5 tens will make _____.

- a. 515 b. 151 c. 551 d. 155

Q36. The time shown in the clock below is 1p.m. It is 30 minutes slow. What is the actual time?

- a. 1.30 a.m. c. 12.30 a.m.
b. 12.30p.m. d. 1.30 p.m.



Q37. There are 4 baskets on the table. In each basket there are 3 red eggs, 4 yellow eggs and 2 blue eggs. How many eggs are there altogether in 4 baskets?

- a. 24
- b. 28
- c. 32
- d. 36



Q38. Arrange the following numbers from the greatest to smallest.



- a. 774,747,744,77
- b. 774,747,77,744
- c. 77,744,747,774
- d. 744,77,747,774

Q39. There are 3 stars on a flag. There are 7 such flags. How many stars are there altogether?



- a. 20
- b. 21
- c. 28
- d. 27

Q40. Which letter is fourth to the left of third letter from the right end?



- a. O
- b. T
- c. A
- d. L

Q41 Find the missing number, if a certain rule is followed column-wise.

18	9	15
6	3	?
24	12	20

- a. 5 b. 6 c. 4 d. 8

Q42. 3 groups of 4 is equal to _____ groups of 6.

- a. 2 b. 6 c. 4 d. 3

Q43. Ritik bought the given items. Total amount of money paid by him is _____.

- a. ₹220 b. ₹310 c. ₹250 d. ₹295



Q44. Select the odd one out.




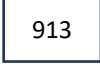




- a. **Z** b. **D** c. **I** d. **G**

Q45. Neha lost her cat. Use the given clues to find Neha's cat.

Clue1: The digit at hundreds place is largest 1-digit number.

Clue2: The place value of 1 in the number is 1.

Clue3: The place value of 3 in the number is 30.

- a.   b.   c.   d.  

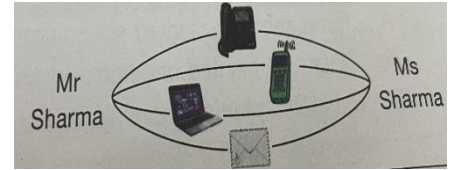
Q46. _____ red straight lines are there in the given figure.

- a. 0 b. 2 c. 1 d. 3



Q47. There are _____ different ways for Mr. Sharma to communicate with Ms. Sharma.

- a. 3
- b. 4
- c. 5
- d. 8



Q48. Study the given pattern carefully and tell the number of guitars in pattern 5?

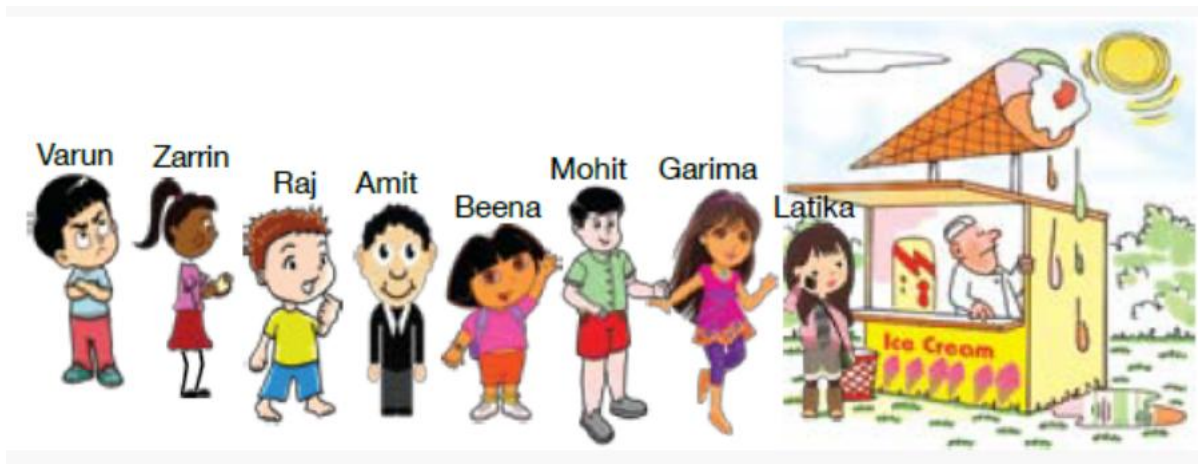


- a. 11
- b. 9
- c. 7
- d. 8

Q49. Out of 200 animals, there are 61 sheep, 32 cows and some horses on the farm. How many horses are there?

- a. 107
- b. 119
- c. 108
- d. 112

Q50. Which person is in the sixth position from the ice-cream shop?
(Count from the right side)



- a. Mohit
- b. Garima
- c. Raj
- d. Varun

ANSWER KEY

1	A	11	C	21	C	31	B	41	A
2	B	12	B	22	C	32	B	42	A
3	B	13	B	23	C	33	D	43	C
4	C	14	C	24	D	34	B	44	D
5	B	15	B	25	B	35	C	45	C
6	A	16	B	26	B	36	D	46	D
7	B	17	A	27	D	37	D	47	B
8	A	18	A	28	B	38	A	48	B
9	C	19	C	29	D	39	B	49	A
10	D	20	A	30	B	40	C	50	C



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Q1. Which of the following statements is correct for 234?

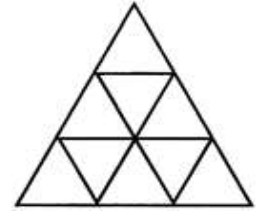
- a. Number 234 has 3 hundreds, 2 tens, 4 ones
- b. In number 234 place value of 2 is 20
- c. Number 234 has 2 tens, 3 ones
- d. Number 234 has 2 hundreds, 3 tens, 4 ones.

Q2. Sangita had Rs. 50. She purchased one eraser of Rs. 3. How much money she will get back?

- a. Rs.40
- b. Rs.42
- c. Rs.47
- d. Rs.30

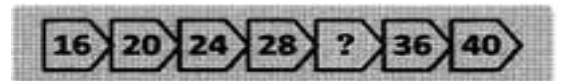
Q3. How many triangles in the figure are made up of 4 small triangles?

- a. 11
- b. 3
- c. 15
- d. 6



Q4. Find missing number.

- a. 30
- b. 32
- c. 34
- d. 38



Q5. Look at the image and answer the following question.



How many pencils are there in 5 groups of 3 pencils each?

- a. 9
- b. 12
- c. 15
- d. 13

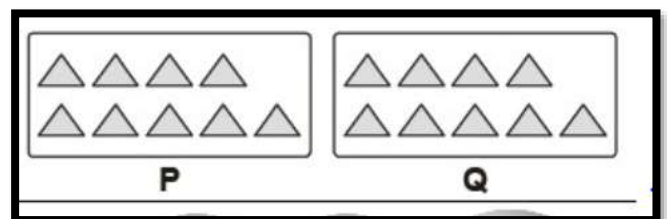
Q6. The cost of one toy truck is. ₹50. Mohit wants to buy 2 toy trucks, then how much amount he needs?

- a. ₹100
- b. ₹200
- c. ₹150
- d. ₹130



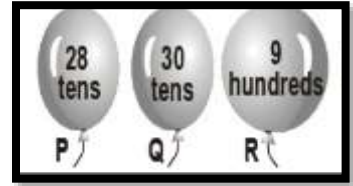
Q7. The subtraction sentence that shows P- Q is_____

- a. $9 - 9 = 0$
- b. $9 - 8 = 1$
- c. $8 - 8 = 0$
- d. $8 - 0 = 8$

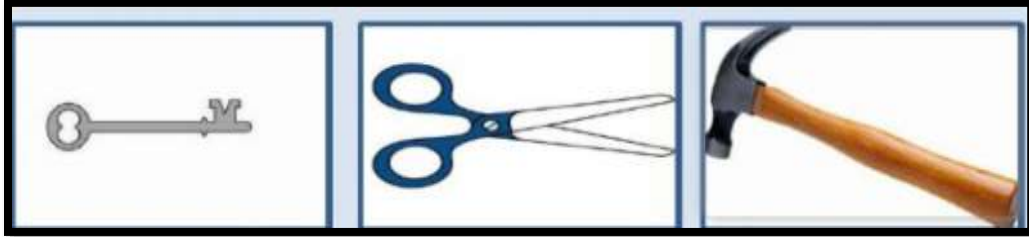


Q8. Which balloon has the largest value?

- a. P
- b. R
- c. Q
- d. All of these



Q9. Which is the longest object?



- a. Key
- b. Hammer
- c. Scissors
- d. None of these

Q10. Which has the largest capacity?



d. All are equal.

Q11. There are 42 candies in a jar. These candies will be shared equally among 7 friends. How many candies each friend will get?

- a. 6
- b. 7
- c. 5
- d. 4



DIRECTION (12 – 13) : On the basis of the given figures , answer the following questions.



Q12. Which is the lightest object among these?

- a. Rice bag
- b. Mangoes
- c. Books
- d. All the above

Q13. What is the total weight of books and rice bag?

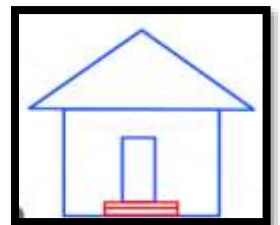
- a. 12 kg
- b. 10 kg
- c. 13 kg
- d. 15 kg

Q14. I am more than $20 + 20$ but less than $40 + 7$. Who am I?

- a. 43
- b. 35
- c. 24
- d. 49

Q15. Which of the following shape is missing in the given picture ?

- a. Rectangle
- b. Square
- c. Circle
- d. Triangle



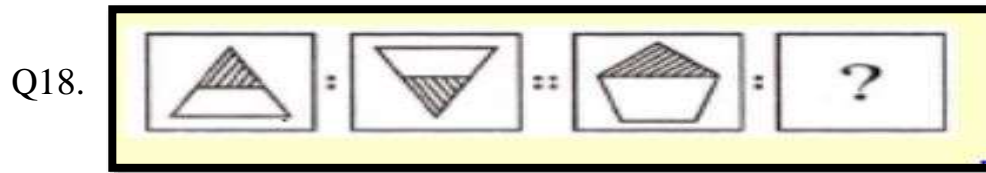
Q16. 2 hr 10 mins after 6 a.m. is _____

- a. 7:10 a.m.
- b. 7:20 a.m.
- c. 8:10 a.m.
- d. 9:10 a.m.

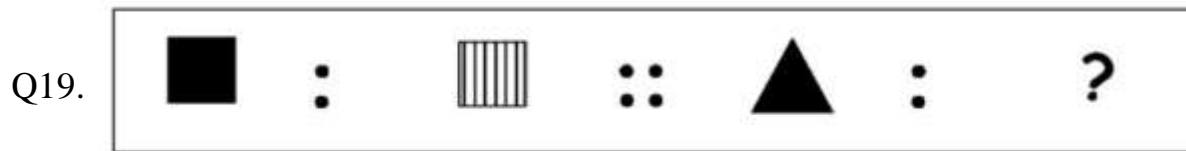
Q17. If today is Wednesday, then what day will be day after tomorrow?

- a. Tuesday
- b. Friday
- c. Thursday
- d. Monday

DIRECTION (18 – 19): There is a certain relationship between the pair of figures on the either side of ::. Identify the relation and find the missing figure.



- a.
- b.
- c.
- d.



- a.
- b.
- c.
- d.

Q20. A clock is 20 mins slow. If the clock is showing 11:30am., then what is the actual time?

- a. 11:35 am. c. 11:50 am.
b. 11:20 am. d. 11:25 am.

Q21. Gautam wants to buy 3 headphones for his friends. If the cost of each headphone is ₹250 then how much money he needs to buy them?

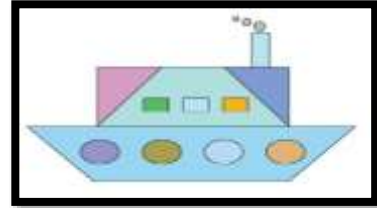
- a. ₹700 c. ₹650
b. ₹750 d. ₹800

Q22. Find the number that is 150 more than 400_____.

- a. 300
- b. 600
- c. 550
- d. 700

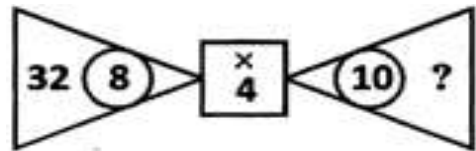
Q23. How many rectangles are there in this figure?

- a. 5
- b. 7
- c. 2
- d. 0



Q24. Find the missing number in the following figure.

- a. 40
- b. 14
- c. 80
- d. 4



Q25. Which of the following is greater than 30 tens?

- a. 180
- b. 270
- c. 250
- d. 350

Q26. Which of the following holds the least value?

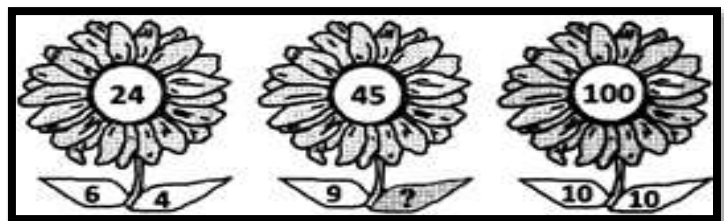
- a. 1 hundred
- b. 20 tens
- c. 5 tens
- d. 40 ones

Q27. 673,773,873, ____? What comes next in the given number series?

- a. 973
- b. 700
- c. 900
- d. 880

Q28. Find the missing number.

- a. 7
- b. 5
- c. 9
- d. 6



Q29. Which dog is in the middle position?



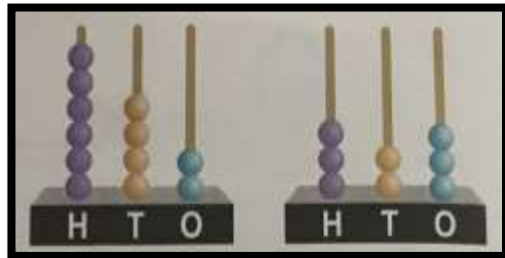
- a. B b. D c. F d. E

Q30. What is the product of 5 tens and 3?

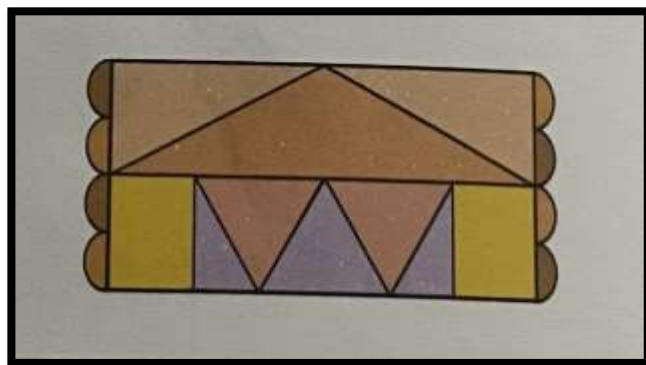
- a. 8 tens c. 80 tens
b. 15 tens d. 150 tens

Q31 The sum of the numbers shown by two abacuses is _____.

- a. 868 c. 935
b. 965 d. 758

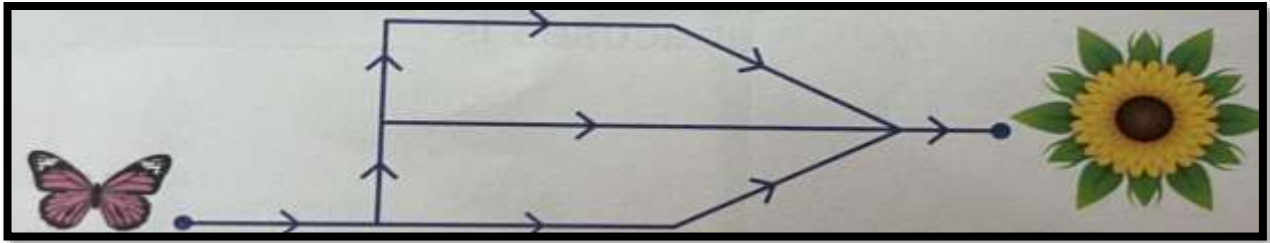


Q32. Which of the following shapes is missing in the given figure?



- a. Square c. Rectangle
b. Circle d. Triangle

Q33. How many different ways are there for the butterfly to reach the flower?



- a. 1 b. 2 c. 6 d. 3

Q34. Find the missing number in the number patterns.

1,2,4,8,16,_____

- a. 31 b. 32 c. 34 d. 36

Q35. 5 hundreds, 1 ones and 5 tens will make _____.

- a. 515 b. 151 c. 551 d. 155

Q36. Amit is taller than David and Hari, David is shorter than Mohit but taller than Hari and Mohit is taller than Amit. Who is the shortest among them?

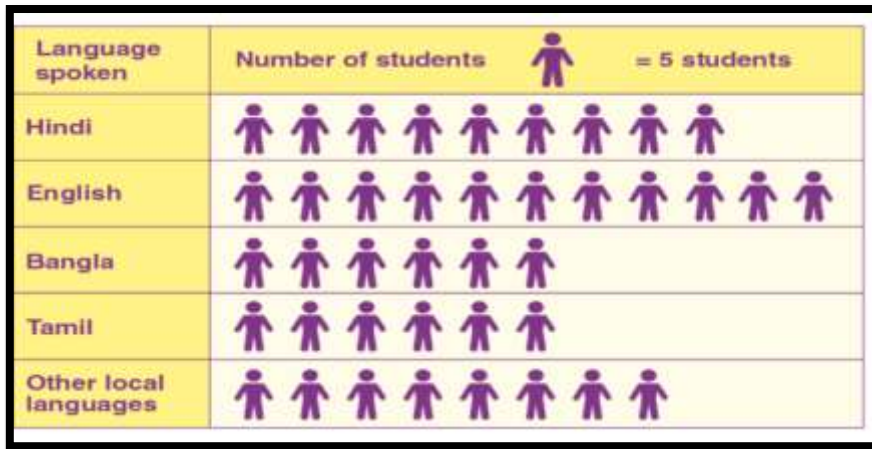
- a. Amit c. Mohit
b. David d. Hari

Q37. Rohit starts his dance practice from 6th December 20XX. If he practices for 15 days (and all Sundays are holidays), then his practice finishes on_____.

- a. Saturday c. Wednesday
b. Thursday d. Friday

December 20XX						
S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

DIRECTION(38 – 40) : The given pictograph shows the number of students who spoke different languages. Study the graph and answer the following questions.



Q38. Which language was spoken by the maximum number of students?

- a. English
- b. Tamil
- c. Hindi
- d. Bangla

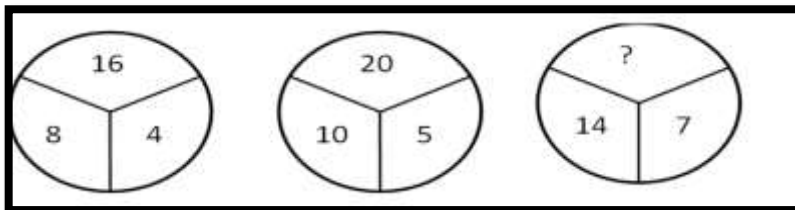
Q39. How many students spoke Tamil?

- a. 25
- b. 35
- c. 30
- d. 20

Q40. Which two languages were spoken by equal number of the students?

- a. English, Tamil
- b. Bangla, Tamil
- c. English, Hindi
- d. Bangla, Hindi

Q41. Identify the missing number.



- a. 56
- b. 28
- c. 33
- d. 49

DIRECTION (42– 44) The given pictograph shows the amount of rainfall in different cities. Study the graph and answer the questions given below.



Q42. Which city had rainfall of about 150 cm?

- a. Kolkata
- b. Delhi
- c. Mumbai
- d. Chennai

Q43. What is the amount of rainfall in Kolkata?

- a. 125 cm
- b. 100 cm
- c. 145 cm
- d. 200 cm

Q44. Which city had the minimum rainfall?

- a. Kolkata
- b. Delhi
- c. Mumbai
- d. Chennai

Q45. There were 585 students in Grade II. If, 280 of them were boys and the rest were girls, how many girls were there?

- a. $585+280$
- b. $584+200$
- c. $585 - 280$
- d. $280 - 585$

Q46. How much ₹5 coins you need to make ₹40?

- a. 5
- b. 4
- c. 8
- d. 6



Q47. Komal purchased 10 litres of paint to paint her house. Each litre cost ₹30. What is the total cost of the paint purchased?

- a. ₹200
- b. ₹300
- c. ₹30
- d. ₹100

Q48. If Banana is called as Orange, Orange is called as Mango, Mango is called as Pineapple, then which fruit is in sphere shape?

- a. Banana
- b. Mango
- c. Apple
- d. Watermelon

Q49. Rs. 20 note is equal to _____ Rs. 5 notes.

- a. Five
- b. Three
- c. Four
- d. Two



Q50. Rs. 9.70 in words is equal to

- a. Nine rupees seventeen paise
- b. Nine rupees seventy paise
- c. Nine rupees seventy five paise
- d. Nine rupees sixty paise

ANSWER KEY:

Q.NO	ANSWER	Q.NO	ANSWER
1	D	26	D
2	C	27	A
3	B	28	B
4	B	29	B
5	C	30	B
6	A	31	B
7	A	32	B
8	B	33	D
9	B	34	B
10	B	35	C
11	A	36	D
12	C	37	B
13	C	38	A
14	A	39	C
15	C	40	B
16	C	41	B
17	B	42	D
18	A	43	A
19	A	44	B
20	C	45	C
21	B	46	C
22	C	47	B
23	A	48	B
24	A	49	C
25	D	50	B