

LEVEL - 2

Year 2019-20

1. Which of the following statements is CORRECT?

- A. A square has only 2 equal sides.
- B. A rectangle has 2 pairs of equal sides.
- C. A square has 2 lines of symmetry.
- D. A rectangle has 4 lines of symmetry.

2. Three Roman numerals A , B and C , each having “V” only once in the place shown. Other two Roman numerals are either I or X or both.

A :

V		
---	--	--

B :

	V	
--	---	--

C :

		V
--	--	---

Which of the following statements is true?

- A. The smallest number is A .
- B. Difference between A and B is 8.
- C. B and C represents same number.
- D. None of these

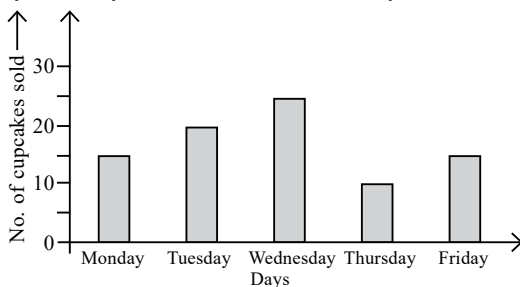
3. How many sixths are there in $2\frac{1}{2} + 4\frac{1}{2} + 3\frac{1}{4} + 3.75$?

- A. 56
- B. 84
- C. 94
- D. 14

4. On Monday, temperature was 20°C . On Tuesday, it had gone down by 3°C and then on Wednesday, it had gone up by 8°C . What was the temperature on Wednesday?

- A. 31°C
- B. 35°C
- C. 25°C
- D. 18°C

5. The given graph shows the number of cupcakes sold by Tanmay on five consecutive days.



What fraction of total cupcakes is sold on Wednesday?

- A. $\frac{4}{17}$
- B. $\frac{5}{17}$

C. $\frac{6}{17}$

D. $\frac{12}{17}$

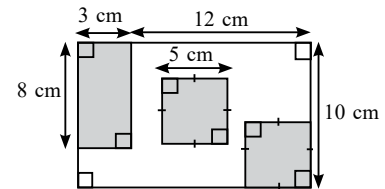
6. Karan spend $\frac{1}{3}$ of his salary and saved ₹ 1500 every month. How much did he earn in a year?

- A. ₹ 27000
- B. ₹ 17200
- C. ₹ 37000
- D. ₹ 31600

7. A towel costs ₹ 59.90 and a bar of soap costs ₹ 12.40. Mrs Kapoor bought 2 towels and 3 bars of soap. How much did she pay altogether?

- A. ₹ 132.30
- B. ₹ 164
- C. ₹ 157
- D. ₹ 144.60

8. In the given figure (not drawn to scale), what fraction of the total area is shaded?



- A. $\frac{34}{75}$
- B. $\frac{37}{75}$
- C. $\frac{34}{150}$
- D. $\frac{37}{150}$

9. Anita filled a tank with 8 L 725 mL of oil, a can with 3 L 25 mL of oil and a bottle with 725 mL of oil. How much quantity of oil did Anita have altogether?

- A. 12 L 475 mL
- B. 14 L 475 mL
- C. 12 L 450 mL
- D. 14 L 450 mL

10. An empty jar weighs 3 kg 125 g. Reshma put some marbles of weight 54 g each. Now, the total weight of the jar is 4 kg 97 g. How many marbles did Reshma put in the jar?

- A. 24
- B. 15
- C. 12
- D. 18

11. When ♠ is subtracted from 65 thousands, the answer is 150 tens less than 62 thousands. How many hundreds is ♠ ?

A. 4.5
B. 45
C. 450
D. 4500

12. There are 125 passengers in a train. 20 of them are children while the rest are adults. If $\frac{5}{7}$ of the adults are men, then what fraction of the total passengers in the bus are women?

A. $\frac{8}{25}$
B. $\frac{16}{25}$
C. $\frac{6}{25}$
D. $\frac{2}{7}$

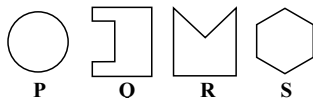
13. In 15753.532, the sum of place values of 5's is _____ more than the sum of place values of 3.

A. 5050.47
B. 5046.97
C. 5047.20
D. 5047.47

14. Shikha makes a profit of rupees eighty five crore three lakh fifty five thousand thirty nine. Her profit can be written in numerals as

A. ₹ 850,355,039
B. ₹ 85,03,55,039
C. ₹ 85,03,55,390
D. ₹ 8,53,67,249

15. Which of the following shapes can be tessellated?

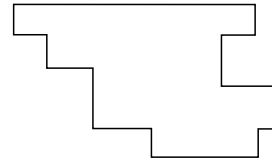


A. Only P and R
B. Only Q and S
C. Only S
D. None of these

16. If area of 12 identical squares is 768 sq. cm, then find the perimeter of a square.

A. 35 cm
B. 21 cm
C. 28 cm
D. 32 cm

17. How many angles inside the given figure are equal to three right angles?



A. 4
B. 6
C. 3
D. 7

18. The value of $(\text{MDCLX} + \text{MMCCIX}) - (\text{MDCIV} + \text{CMXLVI}) =$

A. MCCIX
B. MCCCIX
C. MCCCXIX
D. MCCXIX

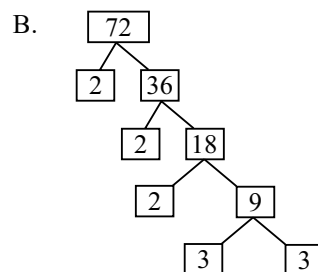
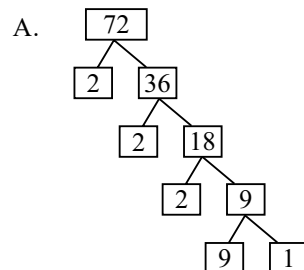
19. Kunal cut a wire and bent it to form 6 similar rectangles. The breadth of each rectangle is 4 cm less than the half of its length. If the breadth of a rectangle is 18 cm, then what is the original length of the wire?

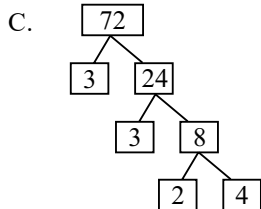
A. 656 cm
B. 744 cm
C. 696 cm
D. 764 cm

20. A rope P is 9.5 m long. The length of rope Q is $\left(\frac{2}{5}\right)^{\text{th}}$ of the length of rope P. What is the total length of both the ropes?

A. 13.3 m
B. 15.2 m
C. 11.4 m
D. 14.3 m

21. Which of the following options shows the correct prime factorisation of 72 ?





D. Both A and B

22. A certain number when divided by 3 gives a remainder of 1. The same number when divided by 4 gives a remainder of 3. Which of the following can be the number?

A. 109
B. 71
C. 82
D. 79

23. If $\frac{7}{25}$ of a number is 21 more than $\frac{1}{4}$ of the same number, then find the number.

A. 800
B. 750
C. 600
D. 700

24. Which of the following statements is/are false?

P. Successor of largest 7-digit number is 10 million.
Q. Estimated value of largest 6-digit number rounded to the nearest hundreds is the smallest 6-digit number.

A. Only P
B. Only Q
C. Both P and Q
D. Neither P nor Q

25. Rajat bought 14 kg 460 g of tomatoes. If he can put 1 kg 205 g of tomatoes in each bag, then how many bags does he need to put all the tomatoes?

A. 14
B. 10
C. 12
D. 8

26. Which of the following options is correct?

A. 8 L 42 mL = 842 mL
B. 3 hm 4 dam = 340 m
C. 75 km 15 m = 7515 m
D. 2 dg 5 cg = 205 mg

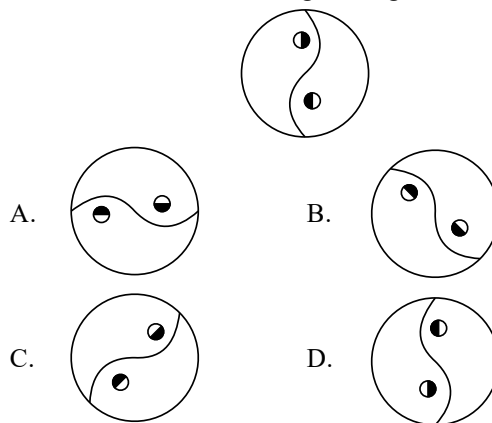
27. The given table shows the timings of a showroom. Study it carefully and answer the question that follows.

Day	Time
Mon - Fri	9:30 a.m. - 5:00 p.m.
Sat - Sun	9:45 a.m. - 2:00 p.m.

Sameer arrived at the showroom at 8:15 a.m. on Wednesday. How long will he have to wait for the showroom to open? If he arrived at the same time on Sunday, then how long will he have to wait?

A. 1 hr 15 mins, 1 hr 40 mins
B. 1 hr 5 mins, 1 hr 40 mins
C. 1 hr 5 mins, 1 hr 30 mins
D. 1 hr 15 mins, 1 hr 30 mins

28. Which of the following figures shows $2\frac{1}{4}$ anti-clockwise rotation of the given figure?



29. The given table shows the fare of travelling from two cabs X and Y. Study it carefully and answer the following question.

	Fare (1 st km)	Every additional (1/2) km or part thereof
Cab X	₹ 28.40	₹ 6.25
Cab Y	₹ 24.50	₹ 8.45

How much total money Sneha has to pay if she travels 4.5 km by Cab Y and 3.5 km from Cab X?

A. ₹ 143.30
B. ₹ 115.90
C. ₹ 215.90
D. ₹ 275.30

30. Select the incorrect option.

A. Triangles with all unequal sides is called a scalene triangle.
B. At 1:15, the smaller angle formed between the two hands of a clock is acute angle.
C. Lines intersecting at 90° are called perpendicular lines.
D. An angle greater than 90° but less than 360° is called an obtuse angle.

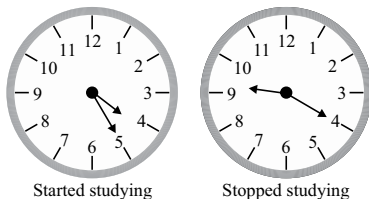
31. If 14 tenths 25 hundredths is subtracted from the product of 4.42 and 6, then the resultant number obtained is _____.

A. 24.87
B. 18.64
C. 22.87
D. 30.64

32. How much greater is the smallest 5-digit number with all different digits than the largest 4-digit number with all different digits?

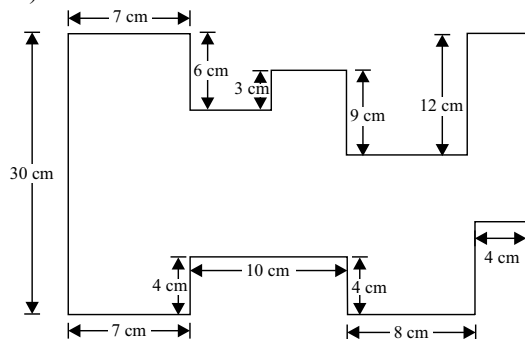
A. 2469
B. 88889
C. 358
D. 2464

33. Ramya started studying at time shown below. After 2 hours 15 minutes, she stopped and took some rest. She then again studied for another 1 hour 45 minutes and then stopped at the time shown. How long was her rest period?



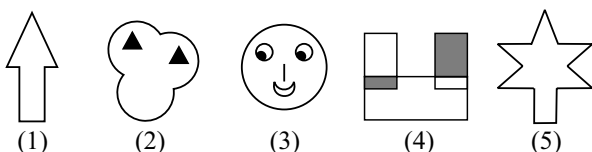
A. 50 mins
B. 1 hr
C. 1 hr 05 mins
D. 55 mins

34. Find the perimeter of the given figure (not drawn to scale).



A. 156 cm
B. 183 cm
C. 146 cm
D. None of these

35. Which of the following figures are symmetric?



A. Only (1) and (5)
B. Only (2) and (5)
C. Only (1), (2), (3) and (4)
D. Only (1), (3) and (5)

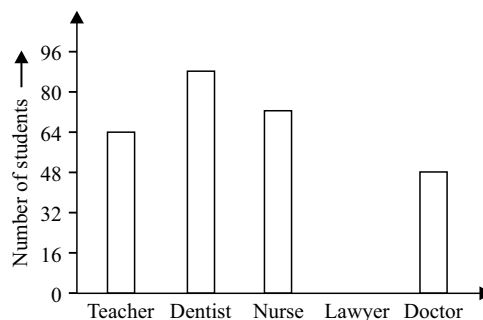
36. ★ is twice the difference between the 6th and the 10th multiple of 7. Find ★.

A. 38
B. 56
C. 60
D. 28

37. Niharika has ₹ 9600. She spends $\frac{1}{3}$ of her money on clothes and $\frac{1}{2}$ of the remaining money on food. How much money is left with her?

A. ₹ 1600
B. ₹ 3200
C. ₹ 6400
D. ₹ 3600

38. The given graph shows the career chosen by students of a class. The total students in the class is 300. Study the graph carefully and answer the question that follows.



How many students chooses Lawyer as the career?

A. 20
B. 28
C. 32
D. 24

39. The given table shows the weight of five friends.

Students	Weight (in kg)
Kavya	56.5
Kamal	68.5
Aman	?
Karan	49
Aanchal	53.5

If the total weight of all the five students is 289 kg 500 g, then find the weight of Aman.

A. 61 kg 500 g
B. 61 kg
C. 62 kg 500 g
D. 62 kg

40. Three containers P, Q, and R contains 425 L of water altogether. Container P contains thrice as much water as container Q. Container R contains 19 L more water than container P. How much quantity of water is there in container R?

A. 183 L
B. 174 L
C. 203 L
D. 193 L

41. Tanya has 7.8 m of thread. If she needs 3 m thread to make a necklace, then how many necklaces can she make and how much thread is left with her?

A. 2, 1.8 m
B. 1, 1.8 m
C. 1, 0.8 m
D. 2, 0.8 m

42. 520 g of tiny pink pebbles are mixed with 580 g of tiny purple pebbles. Vihan packed the mixture of tiny pebbles into 5 equal packets. How many grams of the mixture are there in each packet?

A. 220
B. 330
C. 230
D. 150

43. The table below shows the cost of cashews at stalls X, Y and Z.

Stall	X	Y	Z
Price of cashews	₹ 180 per kg	₹ 117 for 650 g	₹ 162 for 900 g

Which of the following stalls sell the cashews at the same price?

A. Only X and Z
B. Only X and Y
C. Only Y and Z
D. X, Y and Z

44. Atul had ₹ 2000. He bought potatoes for ₹ 115.40, rice for ₹ 310.50, sugar for ₹ 549.45 and fruits for ₹ 498.99. How much money is left with him?

A. ₹ 520.75
B. ₹ 545.66
C. ₹ 425.75
D. ₹ 525.66

45. Find the HCF and LCM respectively of 42, 63 and 105.

A. 7, 630
B. 21, 1260
C. 21, 630
D. 7, 1260

ACHIEVERS SECTION



46. Rashi think of a 6-digit number. Find the number using the given clues.

- The digit at thousands place is more than the digit at tens place by 5.
- The digit at lakhs place is HCF of 3 and 7.
- The digit at tens place is the smallest odd prime number.
- The digit at ten thousands place is 3rd multiple of 2.
- The digit at ones place is 4 less than the digit at ten thousands place.
- The digit at hundreds place is product of digit at lakhs place and ones place.

A. 166212
B. 158232
C. 168232
D. 756212

47. If  +  +  +  = 1160;

 +  +  = 740

and  -  = 120, then the value of

 +  +  +  = _____.

A. 780
B. 1020
C. 1180
D. 880

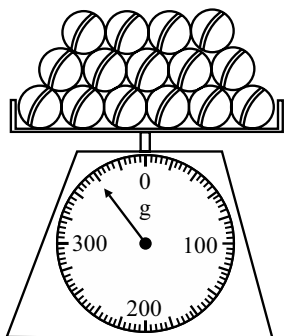
48. Match the following and select the correct option.

Column A

Column B

- (P) Sum of 25.89, 149.9, 76.05 and 43.008 is (i) 1120.972
(Q) Subtract 43.988 from the product of 145.62 and 8. (ii) 738.78
(R) $900 + 70 + \frac{8}{10} + \frac{4}{100} + \frac{6}{1000} =$ (iii) 294.848
(S) $(49.5 \times 17) - (12.84 \times 8) =$ (iv) 970.846
A. (P)→(iii), (Q)→(i), (R)→(ii), (S)→(iv)
B. (P)→(iii), (Q)→(i), (R)→(iv), (S)→(ii)
C. (P)→(i), (Q)→(iii), (R)→(iv), (S)→(ii)
D. (P)→(i), (Q)→(iii), (R)→(ii), (S)→(iv)

49. Read the statements carefully and select the correct option.



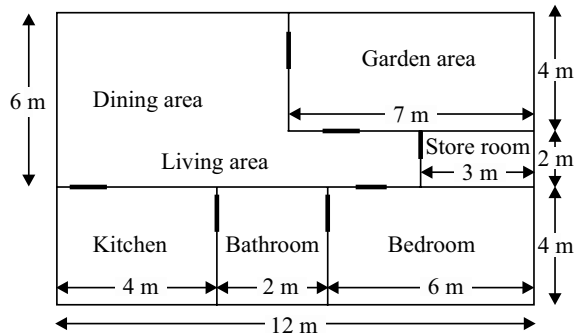
Statement-1 : Value of weight of 12 such balls is 8th multiple of 36.

Statement-2 : Weight of 8 such balls is 72 g more than weight of 5 such balls.

- A. Both Statement-1 and Statement-2 are true.
B. Statement-1 is true but Statement-2 is false.

- C. Statement-1 is false but Statement-2 is true.
D. Both Statement-1 and Statement-2 are false.

50. Study the given figure carefully and answer the question that follows.



What is the total area of living and dining room?

- A. 35 sq. m
B. 36 sq. m
C. 37 sq. m
D. 38 sq. m

SPACE FOR ROUGH WORK