S I M S®

(SCHOLARS INTEGRAL MATHS & SCIENCE OLYMPIADS)

CLASS IV

BIGGEST NATIONAL LEVEL OLYMPIAD : 2016-17

MAX. MARKS : 100 | **SIMO QUESTION PAPER** | **TIME: 60 MIN.**

NAME OF THE STUDENT : .....

HALL TICKET NUMBER : .....

NAME OF THE SCHOOL : .....

INSTRUCTIONS:

- This question paper Consists of 25 questions.
- All questions are single correct answer type.
- Each question carries 4 marks and no negative marks.
- Check weather 25 questions printed or not.
- Read the instructions carefully given on the OMR sheet.
- Hand over OMR Sheet before leaving the exam hall.
- Retain Question paper with you.

SINGLE CORRECT ANSWER TYPE: 25 × 4 = 100

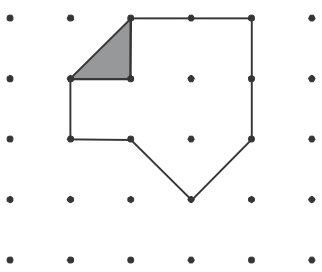
1. A book has 160 pages. How many page numbers contain the digit '0'?

   1) 20 2) 25 3) 26 4) 27

2. I am thinking of a number. If I multiply the number by 85, then add 187 and finally subtract 22, the result is 3735. What number am I thinking of ?

   1) 42 2) 36 3) 48 4) 365

3. If the shaded area has a value of $\frac{1}{4}$, then the value of the whole shape will be



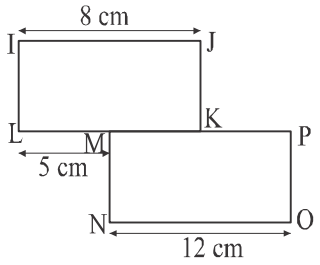
   1) $\frac{15}{4}$ 2) $\frac{17}{4}$ 3) $\frac{19}{4}$ 4) $\frac{13}{4}$

4. Raghav has the calendar for the month of January in which he has chosen a date for holiday. The date is such that it is a multiple of 7. Also, HCF of the date chosen and the number 24 is 2. What is the date chosen by Raghav?

JANUARY						
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	31					

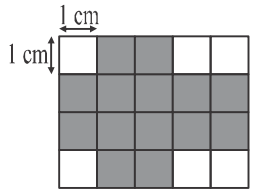
1) 7 2) 14 3) 21 4) 28

5. IJKL and MNOP are two rectangles. Find the length of KP.



1) 3 cm
2) 5 cm
3) 8 cm
4) 9 cm

6. Find the perimeter of the shaded part of the given figure.



1) 12 cm
2) 14 cm
3) 16 cm
4) 18 cm

7. Look the alphabet series given below:

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Which of the following is 9th to the left of 3rd alphabet from right end ?

1) P 2) O 3) N 4) M

8. Think of a number. Multiply it by 10. Add 2. Multiply by 2. Subtract 4. Divide by 10. The result is 80. What is the number?

1) 4 2) 40 3) 8 4) 5

9. There are 18 pupils in a queue. If the distance between two pupils is 80 cm, how long is the queue?

1) 1063 cm 2) 1036 cm 3) 1630 cm 4) 1360 cm

10. Identify it.

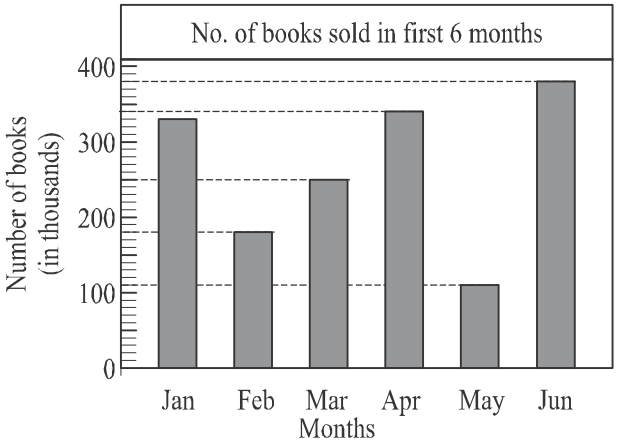
- I am a 4 digit number.
- All my digits are different.
- They add up to 20.
- The hundred's digit is double the one's digit and ten's digit is thrice the thousand's digit.

1) 6734 2) 9236 3) 2864 4) 2963

11. Stick P is 40 cm shorter than stick Q. Stick R is 60 cm longer than stick Q. Find the difference in length between stick P and stick R.

1) 20 cm 2) 80 cm 3) 100 cm 4) 160 cm

12. In which month were 170000 books sold?



1) February 2) March 3) April 4) May

13. I am a 3-digit even number. The sum of my digits is 9. My tens digit is twice that of my hundreds digit, who am I ?

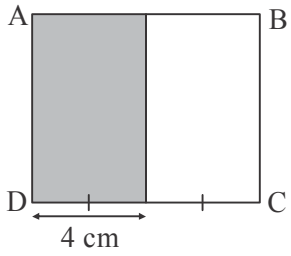
1) 243 2) 621 3) 216 4) 360

14. The total mass of 5 cans of baked beans is 6.75 kg. Find the mass of 3 cans of baked beans.

1) 1.35 kg 2) 2.25 kg 3) 4.05 kg 4) 20.25 kg

15. If the given figure, ABCD is a square.

Find the area of the shaded region.



1) 16 cm^2

2) 32 cm^2

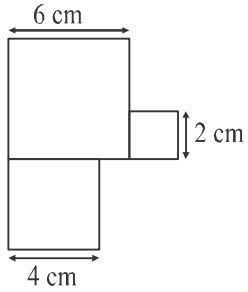
3) 64 cm^2

4) 84 cm^2

16. In the year 2005, Maya's age was a multiple of 6. In year 2009, her age was a multiple of 11. Which is the best guess for Maya's age in the year 2009?

1) 11 years 2) 22 years 3) 33 years 4) 44 years

17. The given figure is made up of three squares. Find its perimeter.



1) 30 cm 2) 32 cm 3) 34 cm 4) 36 cm

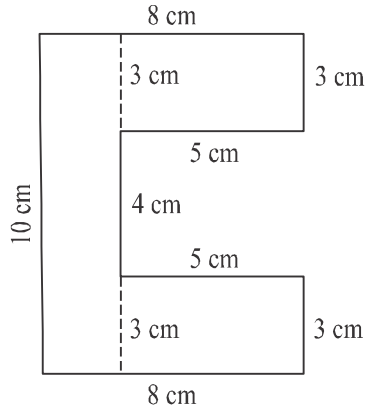
18. The total mass of three children A, B and C is 117 kg. A is 5 times as heavy as C and B is thrice as heavy as C. Find the total mass of A and B.

1) 104 kg 2) 65 kg 3) 13 kg 4) 39 kg

19. The school carnival began at 10 : 00 a.m. and ended at 1 : 45 p.m. How long was the carnival?

1) 2 h 45 min. 2) 3 h 45 min. 3) 3 h 15 min. 4) 4 h 45 min.

20. Find the perimeter of the following.



1) 46 cm 2) 56 cm 3) 42 cm 4) 51 cm

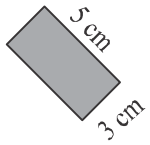
21. City X is 13km 80m from city Z while city Y is 7 km 150 m from city Z. City X is how much farther from city Z than city Y?

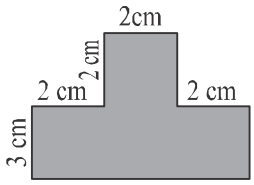
1) 6 km 650m 2) 5 km 930m 3) 6 km 65m 4) 5 km 600m

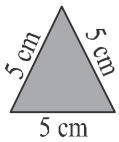
22. Mr. Benrick's family is going to see a hockey match. Entry is ₹40 for each child and ₹70 for each adult. After buying the tickets Mr. Benrick realised that he spent equal amount of money on buying children's and adults' tickets. What is the minimum equal amount of money he should spent on buying the tickets?

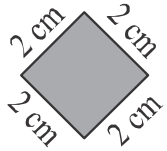
1) ₹70 2) ₹140 3) ₹280 4) ₹320

23. Which figure has the smallest perimeter?

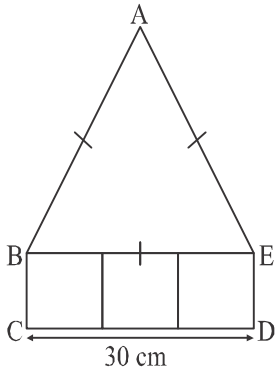
1) 

2) 

3) 

4) 

24. ABCDE is made up of a triangle and 3 similar squares. If CD is 30 cm, What is the perimeter of the figure?



1) 150 cm 2) 110 cm 3) 80 cm 4) 60 cm

25. Select the INCORRECT match.

1) XIV + XXXVI = L 2) XX – XVIII = II

3) XXXV + XXIX = LXIV 4) LX – XXXIX = XXII

❖ ❖ ❖ *All The Best* ❖ ❖ ❖