

ALL INDIA SAINIK SCHOOL ENTRANCE EXAMINATION: 2013
PAPER I – MATHEMATICS AND LANGUAGE ABILITY
CLASS – VI

INSTRUCTIONS

1. This question paper contains two parts and you have to answer all equations in both the parts.
2. Part "A" Mathematical Knowledge Test has three sections containing 30 questions. Q. Nos 1 to 10 carry 2 marks each, 11 to 20 carry 3 marks each and 21 to 30 carry 5 marks each.
3. Part "B" Language Ability Test contains 9 questions. Q. No. 1 and 2 carry 15 marks each and remaining questions carry 10 marks each. In this part you can write our answers in any one of the chosen language only.
4. Write your answer in Blue / Black ink. **Do not use pencil.**
5. All Rough Work is to be done as space provided. 6. There are total 26 pages in the question paper.

PART – MATHEMATICS (Max. Marks : 100)

SECTION – I

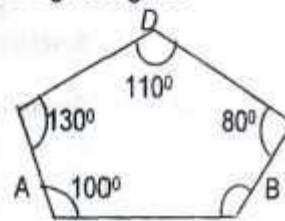
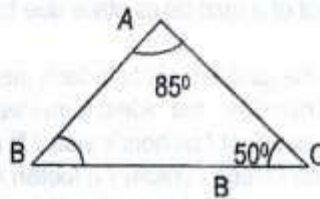
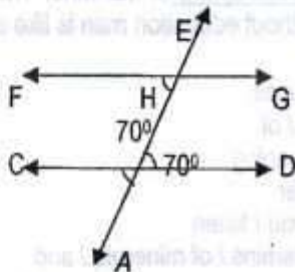
(Each question carries two marks)

1. Find the lowest common multiple of 2, 4 and 5.
2. What least number should be added to 322516 so that the result is exactly divisible by 543?
3. The weight of book is 1kg 350g. Find the weight of 25 boxes if each box contains 38 books.
4. Find the prime factors of 231.
5. Express 20 as percentage of 25.
6. Find the value of $12\frac{1}{5} + 6\frac{1}{10}$
7. Arrange the following fraction in descending order (Use of > symbol)
 $\frac{8}{9}, \frac{8}{11}, \frac{8}{15}, \frac{8}{13}$ and $\frac{8}{17}$
8. Find the HCF of 16, 24, 36
9. A shopkeeper sells a cycle for Rs. 575 and incurs a loss of 75. Find his loss percentage.
10. Ram slept at 9:30 PM and got up at 6:00 AM. How much time did he sleep?

SECTION – II

(Each question carries three marks)

11. Simplify $10 - 2\frac{1}{3} \times 3 + 3\frac{3}{4} + 2\frac{1}{2}$
12. A train covers a distance of 560 Km at a speed of 70 Km per hour. Find the time taken by the train to cover this distance.
13. The age of 5 children is 13, 15, 11, 9 and 8 years respectively. Find their average age.
14. A carpet is 6.60m long and 3.75m broad. The carpet is surrounded by a lace. Find the length of the lace.
15. Find the measure of the angle ABC in each of the following figures using property of the given figure.



16. A container has 4 liters and 650ml of curd. In how many glasses each of 25ml capacity, can it be distributed?
17. A trader paid Rs 900/- as simple interest for 3 years on the sum of Rs 4500/- borrowed by him. Find the rate of interest.
18. Uma can finish a work in 18 days. The same work is finished by Manju in 9 days. In how many days both of them will finish the work while working together.
19. Amit plans to tile his kitchen floor with square tiles. Each side of the tile is 10 cm. his kitchen is 2.6m long and 1.7m wide. How many tiles will amit need?
20. Find the square of $2\frac{113}{256}$
21. A library has 1025 books in all. Out of this 205 books are on Science, 164 books are on philosophy. Find the % of (i) Science books (ii) Philosophy book.
22. Akbar gave $\frac{1}{3}$ of his savings to his wife $\frac{2}{5}$ to his son. Akbar's total saving was Rs 24,000/-. Find the balance amount left with akbar.
23. A block of wood is in the form of a cube. Its edge is 4m. How many rectangular pieces of size 20 cm \times 10cm \times 5cm can be cut from the block if there is no wastage of wood?
24. Explain and draw:- (a) Intersecting lines (b) Concurrent lines