SAMPLE PAPER MATHEMATICS-03

1. What should be subtracted from 33310 to get 23933

   (a) 9377   (b) 8377   (Sainik Schools-2001)

   (c) 9737   (d) 8737

2. Convert $\frac{95}{8}$ into compound fraction:

   (a) $11\frac{6}{7}$ (b) $11\frac{7}{8}$ (Sainik Schools-2002)

   (c) $12\frac{7}{8}$ (d) None of these

3. Simplify and write in decimals: $\frac{11}{50} + \frac{7}{25}$

   (a) $\frac{18}{50}$ (b) $\frac{25}{50}$ (Sainik Schools-2005)

   (c) 0.50   (d) 0.05

4. Which one is bigger? 25% of 144 or 19% of 200

   (a) 25%of 144   (b) both are same   (Sainik Schools-2003)

   (c) 19%of 20   (d) none of these

5. Divide 0.192 by 12

   (a) 0.16   (b) 1.06   (Sainik Schools-2003)

   (c) 0.016   (d) 10.6

6. Change 40m/sec into km/hr

   (a) 144   (b) 154

   (c) 145   (d) 164

7. Express 4.5% as a fraction in its lowest form

   (a) $\frac{9}{20}$ (b) $\frac{9}{100}$

   (c) $\frac{9}{200}$ (d) $\frac{7}{200}$

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8.   Find the gain or loss on a article whose cost price is Rs 140 and selling price is Rs 160.   (Sainik Schools-2003)

    (a)   No loss, no gain   (b)   Gain Rs20

    (c)   Loss, Rs 20   (d)   None of these

9.   In a big city 51 plots of land were sold for Rs 26,01,000. Find the cost of one such plot.   (Sainik Schools-2001)

    (a)   Rs 53000   (b)   Rs 55000

    (c)   Rs 50000   (d)   Rs 51000

10.   Area of a rectangle is 12 Sq.cm and its length is 4 cm. Find its breadth.

    (a)   3cm   (b)   6cm   (Sainik Schools-2005)

    (c)   4cm   (d)   2cm

11.   The complementary angle of 30^0 is.

    (a) 150^0 (b) 30^0 (Sainik Schools-2001)

    (c) 60^0 (d) 90^0

12.   If the radius of a circle is 3.5 cm. then what is the length of its diameter?

    (a)   3cm   (b)   5cm   (Sainik Schools-2002)

    (c)   9m   (d)   7cm

13.   If 60 bags of cement can be loaded in a truck, then in how many trucks will 4380 bags of cement be loaded?   (Sainik Schools-2001)

    (a)   73   (b)   75

    (c)   63   (d)   65

14.   Find the sum of 119.05 + 21.86 + 46.8

    (a)   177.7   (b)   187.71   (Sainik Schools-2001)

    (c)   117.71   (d)   197.71

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15. Four pieces of ribbon measure 35 cm, 40 cm, 65 cm, 80 cm. Find the average length of the ribbons.

    (a)   45   (b)   52

    (c)   50   (d)   55

16. The average of 1, 2, X, 4, 5, is 3. Find the value of X.

    (a)   2   (b)   4

    (c)   4   (d)   5

17. The number 4318 should be divided by which number so that the quotient is 17

    (a)   254   (b)   244

    (c)   255   (d)   253

18. There are 25 equal squares with are side equal to 14 cms. Find the total area.

    (a)   4900   (b)   4200

    (c)   4500   (d)   None of these

19. Ram borrowed Rs 15,000 from his friends at 8% interest per annum. He returned the money after 10 months. How much did they pay his friend?

    (a)   Rs 1000   (b)   Rs 16000

    (c)   Rs 1200   (d)   Rs 17000

20. One side of square tile is 12 cm. How many tiles can you fix on a wall which is 8 m long and 4.5 m high?

    (a)   2400   (b)   250

    (c)   2500   (d)   None of these

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21. A shop has 7 cm length, 5 cm breadth and 2.5 cm height. How many shop can be placed in a cardboard whose length, breadth and height are 56 cm, 40 cm and 25 cm respectively.

   (a)   460   (b)   640

   (c)   620   (d)   450

22. Ramesh spend 15% of his salary on house rent and 20% of his salary on food. How much does spend monthly on the whole if income is Rs 7,000 per month?

   (a)   1050   (b)   1400   (Sainik Schools-2005)

   (c)   2250   (d)   2450

23. An alloy contains 15% Zinc, 25% Brass and rest of copper. How much copper is there in 75 kg of that metal?

   (a)   45   (b)   42   (Sainik Schools-2003)

   (c)   18.75   (d)   11.25

24. Rajdhani Express covers the distance of 441 km between New Delhi and Kanpur in 4 hrs and 30 min. Find out the speed per hours of the train.

   (a)   94m/hr   (b)   56m/sec   (Sainik Schools-2001)

   (c)   54m/sec   (d)   98km/hr

25. Find the volume of a cuboid whose length is 1m breadth 15 cm and height 25 cm.

   (a)   37500   (b)   34500   (Sainik Schools-2001)

   (c)   35500   (d)   36500

26. If 6 buffaloes or 12 cows can graze a field in 24 days. In how many days can 2 buffaloes and 4 cows graze the same field?

   (a)   30   (b)   32

   (c)   34   (d)   36

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27. The average of six number is 8. What seventh number must be added to increase the average to 10.

    (a)   24   (b)   22

    (c)   18   (d)   20

28. $\frac{3}{10}$ of the length of the pole is in mud $\frac{3}{5}$ of the length is under water. Find what fraction of the length of pole is above water.

    (a) $\frac{1}{15}$ (b) $\frac{1}{5}$

    (c) $\frac{3}{15}$ (d) $\frac{1}{10}$

29. Find out the largest four digit number which is fully divisible by 88.

    (a)   9944   (b)   9934   (Sainik Schools-2001)

    (c)   9945   (d)   9954

30. Three brothers have an average monthly income of Rs 300 per head. If the eldest earn Rs 350 per month and the youngest is Rs 250 per month, What is the monthly income of the middle brother?

    (a)   500   (b)   350

    (c)   450   (d)   300

31. An article bought for Rs 380, was sold at a loss of 5%. Find the loss in Selling Price.

    (a)   245   (b)   351   (Sainik Schools-2001)

    (c)   361   (d)   254

32. Anil obtained 96% out of 900. How many marks did he obtained?

    (a)   764   (b)   798   (Sainik Schools-2002)

    (c)   926   (d)   864

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33.   The cost of 1 kg mango is Rs 8.25 and the cost of 1 kg of sweet is Rs 67. Heera purchased 4 kgs mangoes and 3 kg of sweets. How much did he spend in all?

(a)	243	(b)	254	(Sainik Schools-2001)
(c)	234	(d)	343	

34.   Sita has $\frac{3}{4}$ of toffee with her, she has to distribute them among her six friends equally. How much will each of her friends get?

(a)	$\frac{1}{6}$	(b)	$\frac{1}{7}$	(Sainik Schools-2002)
(c)	$\frac{5}{6}$	(d)	$\frac{1}{8}$	

35.   If the length of the hypotenuse and one side of a right angled triangle are 5 cm and 3 cm respectively then will be the length of its other side?

(a)	3	(b)	2	(Sainik Schools-2002)
(c)	4	(d)	6	

36.   Which are of the following has two ends.

(a)	Line	(b)	Ray	(Sainik Schools-2002)
(c)	Plane	(d)	Line Segment	

37.   Which one of the following has a definite length.

(a)	Line	(b)	Ray	(Sainik Schools-2002)
(c)	Plane	(d)	Line Segment	

38.   If the vendor bought oranges at 5 in a rupee. How many oranges must he sells in a rupee to gain 25%?

(a)	6	(b)	3	(Sainik Schools-2002)
(c)	4	(d)	2	

39.   A cyclist covers 0.9 km in 3 minutes. What will be his speed in Km/hr?

(a)	18 km/hr.	(b)	180kkm/hr	(Sainik Schools-2002)
(C)	1.8km/hr.	(d)	0.18km/hr	

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40. An engine pumps 900 liters of waters in one minute. How much time will be taken by it to pump out 1496700 liters of waters?

    (a) 1662   (b) 1665   (Sainik Schools-2002)

    (c) 1663   (d) 1667

41. A school has periods n a day such that each period s of 35 minutes. F the number of the periods s reduced to 7 then how long would each period be?

    (a) 45mn   (b) 40 min

    (c) 30mn   (d) 35mn

42. Change 122°F to C

    (a) 55°   (b) 45°   (Sainik Schools-2002)

    (c) 40°   (d) 50°

43. A copy book contain 280 pages. If a boy used 200 pages. What fraction of the whole is still available to him for his use?

    (a) $\frac{5}{7}$ (b) $\frac{2}{7}$

    (c) $\frac{2}{5}$ (d) None of these

44. If the selling price of an article which is sold at $12\frac{1}{2}$% profit is Rs 36, find the cost price of the article.

    (a) 31   (b) 34

    (c) 32   (d) 33

45. Simplify-: 120x0(100+1111-150).

    (a) 132   (b) 100

    (c) 1032   (d) 0

46. The price of an article is reduced by 20%. Find the original price of the article if reduced price is Rs 400.

    (a) 400   (b) 340

    (c) 500   (d) 550

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47. A garrison of 112 men is provisioned for 5 months. How many man go out so that the provisions may last for 7 months

   (a) 130men   (b) 32 men

   (c) 120men   (d) 80 men

48. If the 60% of the students in a school are boys and the number of girls is 812. How many boys are there?
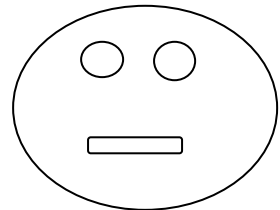
   (a) 1218   (b) 1108

   (c) 1018   (d) 1281

49. Simplify-: 9 of 600-{(14of650-2of50)÷3+4of250}.

   (a) 1400   (b) 1410

   (c) 1500   (d) 1505

50. From circular card sheet of radius 14 cm two circles of radius 3.5 cm and a rectangle of length 3 cm and breadth 1cm are removed. Find the area of remaining sheet.

   (a) 436   (b) 540

   (c) 536   (d) 563

ANSWER KEY
SAMPLE PAPER MATEMATICS-03

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