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SAMPLE PAPER MATHEMATICS-02

- Add $325.8 + 89.097 + 0.78 =$
(a) 415.067 (b) 415.677
(c) 415.767 (d) 451.679
- Solve: $3\frac{3}{4}$ of $\frac{3}{5}$
(a) $\frac{7}{4}$ (b) $\frac{3}{5}$
(c) $\frac{9}{4}$ (d) $\frac{5}{2}$
- Find the quotient: $4.956 \div 2.36$
(a) 2.1 (b) 2.2
(c) 2.3 (d) 2.4
- Simplify: $4.5 + 7.257 - 3.85 =$
(a) 7.807 (b) 7.707
(c) 7.907 (d) 7.607
- Find out: $12\frac{1}{2}\%$ of Rs 800
(a) 125 (b) 100
(c) 200 (d) 128
- Find the volume of cube, whose side is 6 cm.
(a) 216 (b) 226
(c) 236 (d) 246
- A dozen apples cost Rs 72. What is the cost of Rs 20 apples?
(a) Rs 144 (b) Rs 140
(c) Rs 124 (d) Rs 120

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8. Convert 7.5 as a percentage.

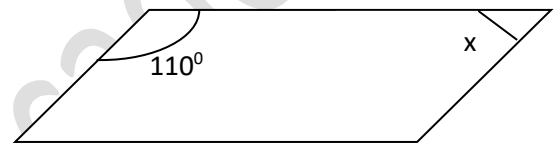
- (a) 75 (b) 0.75
(c) 750 (d) 7.5

9. Mrs Bhasin borrowed Rs 48000 from finance company at 12% per annum for 7 months. Find interest Mrs Bhasin will have to pay to the finance company?

- (a) Rs51260 (b) Rs 3250
(c) Rs 3360 (d) Rs 51360

10. Find the value of x :

- (a) 110° (b) 100°
(c) 80° (d) 70°



11. How many straight lines can be drawn through two points?

- (a) Two (b) Many
(c) Only one (d) None

12. If $a=4$ and $b=1$, Find the value of $7a-3b$.

- (a) 21 (b) 22
(c) 24 (d) 25

13. Which of following are concurrent lines?

- (a) Two straight lines which intersect on another.
(b) Two straight lines which are extended indefinitely in both direction.
(c) Three or more straight lines which meet at a point.
(d) Two straight lines which meet at a point from the opposite direction.

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14. The breadth of a rectangle is $\frac{3}{5}$ of the length. If length of the rectangle is 25 m. Find the perimeter of the rectangle.
- (a) 100 (b) 80
(c) 75 (d) 150
15. What least number should be subtracted from 277 to make it divisible by 5 ?
- (a) 0 (b) 5
(c) 2 (d) 3
16. If the average of 1, 2, 7, x, 6 is 7. Find the value of x :
- (a) 17 (b) 18
(c) 19 (d) 20
17. ABCD is a quadrilateral $\angle A=42^\circ$, $\angle B=54^\circ$, $\angle C=x^\circ$ and $\angle D= x^\circ+70^\circ$. Calculate $\angle C$ and $\angle D$
- (a) $\angle C=97^\circ$, $\angle D=167^\circ$ (b) $\angle C=95^\circ$, $\angle D=165^\circ$
(c) $\angle C=97^\circ$, $\angle D=163^\circ$ (d) None of these
18. Ramesh spends $\frac{5}{6}$ part of monthly income. If annual saving is Rs 624. Find his annual income.
- (a) Rs 3644 (b) Rs 3744
(c) Rs 3844 (d) Rs 3754
19. Write down the following from highest to lowest: $\frac{7}{12}$, $\frac{11}{18}$, $\frac{5}{8}$
- (a) $\frac{7}{12}$, $\frac{11}{18}$, $\frac{5}{8}$ (b) $\frac{11}{18}$, $\frac{7}{12}$, $\frac{5}{8}$
(c) $\frac{5}{8}$, $\frac{11}{18}$, $\frac{7}{12}$ (d) None of these

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20. Simplify: $\sqrt{\frac{1024}{1849}}$

(a) $\frac{30}{11}$

(b) $\frac{30}{42}$

(c) $\frac{31}{42}$

(d) $\frac{32}{43}$

21. How much time a train will take to cross a 800m long bridge running at a speed of 50 km/hour if the length of the train is 200m?

(a) 1hr30 min

(b) 1 min 12 sec

(b) 40 min

(d) 1hr 12 min

22. Simplify: $12 + [\{(9 \div 3) - (4 \div 2)\} \text{ of } 2 + (2 + 4 - 3)]$

(a) 12

(b) 13

(c) 17

(d) 14

23. A hall is 25m long and 10m wide. It is to be paved with equal square tiles. Find the least number of tiles which will exactly cover the floor.

(a) 2

(b) 13

(c) 4

(d) 5

24. Find the greatest number which will divide 410, 751 and 1030, so as to leave remainder 7 in each case.

(a) 30

(b) 31

(c) 32

(d) 33

25. The average of three number is 24. If one of the number is 18 and other number is 19. Find the third number.

(a) 30

(b) 33

(c) 35

(d) 37

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26. In a school there are 900 pupils of whom 38% are girls. How many boys are studying in the school?

- (a) 552 (b) 554
(c) 556 (d) 558

27. **A** earn 20% more than **B**. If **B** earns Rs 40. Find the earning of **A**.

- (a) 44 (b) 46
(c) 48 (d) 50

28. At what rate percent simple interest will a certain sum of money double itself in 20 years?

- (a) 5% (b) 7%
(c) 9% (d) None of these

29. How many bricks 10 cm long, 7 cm wide are needed to pave a rectangular floor 14 m long and 12.5m wide?

- (a) 2300 (b) 25000
(c) 27000 (d) 29000

30. Convert 104° F into C°

- (a) $40^{\circ} C^{\circ}$ (b) $42^{\circ} C^{\circ}$
(c) $44^{\circ} C^{\circ}$ (d) $44^{\circ} C^{\circ}$

31. If $a=2$, $b=3$, $c=4$. Find the value of $\frac{2a-3b+2c}{4a-2b+2c}$

- (a) $\frac{2}{5}$ (b) $\frac{3}{10}$
(c) $\frac{4}{15}$ (d) None of these

32. Find the value of x. $35: 98 :: 50 : X$

- (a) 110 (b) 120
(c) 130 (d) 140

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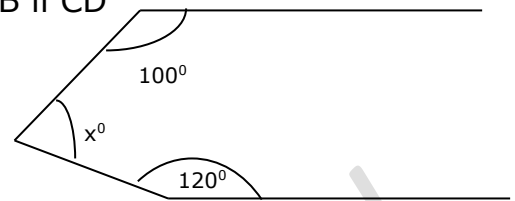
33. Find the value of x° for following figure, if $AB \parallel CD$

(a) 120°

(b) 150°

(c) 140°

(d) 130°



34. Sachin saved Rs 400 each in the first and second months, Rs 800 and 600 in the third and fourth months. Find average monthly saving over the four months.

(a) 500

(b) 550

(c) 600

(d) 650

35. Two numbers are in the ratio of 15:11. If their HCF is 13, find the numbers.

(a) 78, 99

(b) 100, 135

(c) 195, 143

(d) 13, 40

36. Cost of 5 tables is the same as the cost of 7 chairs. If the cost of one table is Rs 210. Find the cost of a chair.

(a) 100

(b) 150

(c) 200

(d) 250

37. A candidate who gets 220 marks and fail by 11 marks. Maximum marks are 700. Find the pass%

(a) 30%

(b) 31%

(c) 32%

(d) 33%

38. A radiogram and a radio are worth Rs 1700 and the radiogram cost 4 times as much as radio. What is the price of the radiogram?

(a) Rs 1340

(b) Rs 1360

(c) Rs 1380

(d) None of these

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39. A boy gets Rs 2 for every 5 correct aim at a target and loses Rs 0.50 for every aim missed. In a game of 8 trials he missed the aim 3 times. How much amount he get?

- (a) Rs 0.60 (b) Rs 0.70
(c) Rs 0.50 (d) Rs 0.40

40. By selling an article for Rs 18 a shopkeeper losses 10% of its cost price. At what price should he sell this article in order to make 10% profit on its cost price?

- (a) 20 (b) 22
(c) 24 (d) 26

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

- (a) Rs 30 (b) Rs 31
(c) Rs 32 (d) Rs 33

42. A shopkeeper purchased some apples at the rate of 4 for Rs 0.50 and sold them at the rate of 3 for Rs 0.50. Find his profit%

- (a) $33\frac{1}{2}$ (b) $33\frac{1}{3}$
(c) $33\frac{1}{4}$ (d) None of these

43. What sum of money lent out at simple interest at $4\frac{1}{2}\%$ percent for 3 years will produce the same interest as Rs 540 lent at 3% per annum for $2\frac{1}{2}$ years.

- (a) Rs 150 (b) Rs 200
(c) Rs 250 (d) Rs 300

44. If the volume of a cuboid whose length and breadth are 20 cm and 10 cm is 800 cubic cm. Find the height of the same cuboid.

- (a) 2 cm (b) 4 cm
(c) 6 cm (d) 8 cm

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45. Find the greatest which on dividing 1657 and 2037 leaves remainder 6 and 5 respectively.

- (a) 80 (b) 98
(c) 127 (d) None of these

46. Mahendra purchased a motor cycle for Rs 10,000. He paid Rs 150 for road tax and Rs 100 as license fee. What price must he sell it to gain 20%?

- (a) Rs 12,300 (b) Rs 12,400
(c) Rs 12,500 (d) Rs 12,600

47. The price of a table has been increased from Rs 500 to Rs 800. Find the increase %.

- (a) 50% (b) 60%
(c) 70% (d) 80%

48. The perimeter of rectangular garden is 30 meters and ratio of length and breadth is 7:3. Find the area of rectangle.

- (a) 47.25 (b) 47.35
(c) 46.25 (d) 46.35

49. A man can copy 75 pages in 25 hours. For every hour works, he is paid a rupee. How much shall he get if he copies 45 pages?

- (a) Rs 11 (b) Rs 13
(c) Rs 17 (d) Rs 15

50. Arun can complete certain job in 20 days working 3 hours per day. Anil can complete the same job in 12 days working 6 hours a day. Who complete the work in lesser time?

- (a) Arun (b) Anil
(c) Both take same time (d) none of these

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ANSWER KEY **SAMPLE PAPER-02**

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

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