

100 QUESTIONS AND ANSWER FOR SBI CLERK PRE EXAM FOR MATH

SUBJECT

ARITHMETIC (20 QUESTIONS):-

1. A SHOPKEEPER SELLS AN ITEM FOR ₹2,400 AT A PROFIT OF 20%. FIND THE COST PRICE.
2. A TRAIN 150 METERS LONG IS RUNNING AT 72 KM/H. HOW MUCH TIME WILL IT TAKE TO CROSS A BRIDGE 300 METERS LONG?
3. THE RATIO OF THE AGES OF A AND B IS 5:8. IF THE DIFFERENCE IN THEIR AGES IS 15 YEARS, FIND THEIR PRESENT AGES.
4. THE SUM OF THE AGES OF A AND B IS 60 YEARS. IF THE RATIO OF THEIR AGES IS 3:5, FIND THEIR AGES.
5. A PERSON BUYS 4 ARTICLES FOR ₹500 EACH AND SELLS THEM FOR ₹600 EACH. FIND THE TOTAL PROFIT.
6. A MAN INVESTS ₹25,000 AT 12% PER ANNUM SIMPLE INTEREST. WHAT IS THE INTEREST HE RECEIVES AFTER 3 YEARS?
7. A MAN PURCHASES AN ARTICLE FOR ₹300 AND SELLS IT AT A LOSS OF 10%. WHAT IS THE SELLING PRICE?
8. A PERSON CAN COMPLETE A WORK IN 12 DAYS. HOW MANY DAYS WILL 4 PERSONS TAKE TO COMPLETE THE SAME WORK?
9. THE PERIMETER OF A RECTANGLE IS 120 METERS, AND ITS LENGTH IS 35 METERS. FIND ITS WIDTH.
10. A BOAT TRAVELS 30 KM UPSTREAM IN 5 HOURS AND RETURNS DOWNSTREAM IN 4 HOURS. FIND THE SPEED OF THE BOAT IN STILL WATER.
11. A MAN RUNS 40 METERS IN 8 SECONDS. WHAT IS HIS SPEED IN KM/H?
12. A SUM OF MONEY IS DIVIDED BETWEEN A AND B IN THE RATIO 3:4. IF B RECEIVES ₹560, WHAT IS THE TOTAL SUM?
13. THE RATIO OF THE SIDES OF A TRIANGLE IS 3:4:5. IF THE PERIMETER IS 72 METERS, FIND THE LENGTH OF THE LONGEST SIDE.
14. A TRAIN RUNNING AT 60 KM/H CROSSES A BRIDGE 200 METERS LONG IN 24 SECONDS. WHAT IS THE LENGTH OF THE TRAIN?
15. A MAN TRAVELS 120 KM IN 4 HOURS. WHAT IS HIS AVERAGE SPEED?

16. THE COST PRICE OF 10 BOOKS IS ₹2,500. FIND THE COST OF 7 BOOKS.
17. A PERSON BORROWS ₹4,500 AT 10% INTEREST PER ANNUM FOR 3 YEARS. FIND THE TOTAL AMOUNT HE HAS TO REPAY.
18. THE LENGTH OF A RECTANGULAR PLOT IS 100 METERS AND ITS BREADTH IS 60 METERS. FIND THE AREA OF THE PLOT.
19. A SUM OF ₹15,000 IS INVESTED AT 8% ANNUAL COMPOUND INTEREST. FIND THE AMOUNT AFTER 2 YEARS.
20. A MAN SPENDS ₹800 ON FOOD, ₹500 ON RENT, AND ₹300 ON TRANSPORTATION. WHAT IS THE TOTAL AMOUNT SPENT?

SIMPLIFICATION (20 QUESTIONS):-

21.	Simplify: $72 / 8 + 15 \times 2$
22.	If $625 + 7116 = x$, find x.
23.	Solve: $45 \div 3 + 2 \times 4$
24.	Simplify: $7 \times (8+6) - 32 / 3$
25.	Find the value of: $12 \times 3 + 42 / 2$
26.	Simplify: $36 \div 6 \times 9$
27.	What is $34/9 + 23/3$?
28.	Simplify: $5 \times (6 + 4) - 32 / 3 \div 3$
29.	If $x=5$, what is the value of $3X^2 + 2x - 4$?
30.	Solve: $53/3 + 73/3$
31.	Simplify: $20 + 15 / 3 \times 2$
32.	Simplify: $(8+2) \times (9-5)$
33.	Find the value of: $42 \times 3 - 23$
34.	Solve: $7 \times 23/3 - 32/3 + 6$
35.	Simplify: $24 \div 6 \times 3 + 5$

36.	Simplify: $(72+42)\div 3$
37.	Find the value of: $5 \times (7 + 9) \div 4$
38.	Simplify: $18 \div (6 \times 2) + 4$
39.	Solve: $9 \times 32/3 \div 3$
40.	Simplify: $25 + 12 \times 2 / 6$

DATA INTERPRETATION (20 QUESTIONS)

41.	A PIE CHART SHOWS THE MONTHLY EXPENSES OF A FAMILY: RENT = 25%, GROCERIES = 35%, UTILITIES = 15%, SAVINGS = 25%. IF THE TOTAL MONTHLY INCOME IS ₹40,000, FIND THE AMOUNT SPENT ON GROCERIES.
42.	A BAR GRAPH SHOWS THE SALES OF A COMPANY OVER FIVE MONTHS: JAN = 500 UNITS, FEB = 700 UNITS, MAR = 650 UNITS, APR = 800 UNITS, MAY = 750 UNITS. FIND THE AVERAGE SALES.
43.	THE TOTAL REVENUE OF A COMPANY IN THE LAST FIVE YEARS WAS ₹5,00,000, ₹6,00,000, ₹7,00,000, ₹8,00,000, ₹9,00,000. FIND THE AVERAGE REVENUE.
44.	IN A SURVEY, 40% OF 300 PEOPLE PREFER TEA, 50% PREFER COFFEE, AND THE REST PREFER OTHER DRINKS. FIND THE NUMBER OF PEOPLE WHO PREFER COFFEE.
45.	THE MARKS OBTAINED BY 5 STUDENTS IN A TEST WERE 40, 50, 60, 70, AND 80. WHAT IS THE AVERAGE MARKS?
46.	A STUDENT SCORES 80, 90, 85, AND 75 MARKS IN FOUR SUBJECTS. WHAT IS THE AVERAGE SCORE?
47.	THE MONTHLY EXPENDITURE OF A FAMILY IS ₹30,000, ₹35,000, ₹28,000, ₹40,000, ₹45,000. FIND THE AVERAGE MONTHLY EXPENDITURE.
48.	THE TOTAL SALES OF A COMPANY FOR THE FIRST 6 MONTHS WERE ₹50,000, ₹60,000, ₹70,000, ₹80,000, ₹90,000, ₹100,000. FIND THE AVERAGE SALES.

49.	IN A GROUP OF 200 PEOPLE, 60% ARE MALE AND THE REST ARE FEMALE. HOW MANY FEMALES ARE THERE?
50.	THE MARKS OF STUDENTS IN A CLASS ARE AS FOLLOWS: 60, 70, 80, 90, 100. WHAT IS THE MEDIAN OF THESE MARKS?
51.	A BOX CONTAINS 30 RED BALLS, 40 GREEN BALLS, AND 50 BLUE BALLS. WHAT IS THE PROBABILITY OF PICKING A GREEN BALL?
52.	IN A CLASS, 60% OF STUDENTS ARE GIRLS. IF THERE ARE 200 STUDENTS, HOW MANY ARE BOYS?
53.	A LINE GRAPH SHOWS THE TEMPERATURE OVER 6 MONTHS: JAN = 15°C, FEB = 18°C, MAR = 20°C, APR = 25°C, MAY = 28°C, JUN = 30°C. FIND THE AVERAGE TEMPERATURE.
54.	THE TOTAL MARKS SCORED BY 5 STUDENTS ARE 200, 250, 300, 350, AND 400. WHAT IS THE AVERAGE SCORE?
55.	A PIE CHART SHOWS THE DISTRIBUTION OF A COMPANY'S REVENUE IN DIFFERENT SECTORS: A = 30%, B = 40%, C = 20%, D = 10%. IF THE TOTAL REVENUE IS ₹1,00,000, FIND THE REVENUE FROM SECTOR B.
56.	IN A CLASS OF 40 STUDENTS, 60% ARE BOYS. HOW MANY BOYS ARE THERE?
57.	A BAR GRAPH SHOWS THE POPULATION OF FOUR CITIES: CITY A = 2000, CITY B = 3000, CITY C = 4000, CITY D = 5000. FIND THE TOTAL POPULATION.
58.	THE RATIO OF APPLES TO ORANGES IN A BASKET IS 3:5. IF THERE ARE 120 ORANGES, HOW MANY APPLES ARE THERE?
59.	A TABLE SHOWS THE MARKS OF 5 STUDENTS IN A TEST: A = 40, B = 50, C = 60, D = 70, E = 80. WHAT IS THE MEDIAN?
60.	A LINE GRAPH SHOWS THE SALES OF A COMPANY FOR 6 MONTHS: JAN = ₹20,000, FEB = ₹25,000, MAR = ₹30,000, APR = ₹35,000, MAY = ₹40,000, JUN = ₹45,000. FIND THE AVERAGE SALES.

NUMBER SERIES (20 QUESTIONS):

61.	FIND THE MISSING NUMBER IN THE SERIES: 2, 6, 12, 20, ?, 42.
62.	FIND THE WRONG NUMBER IN THE SERIES: 5, 10, 20, 40, 85, 170.
63.	WHAT IS THE NEXT NUMBER IN THE SERIES: 7, 14, 21, 28, 35, ?
64.	FIND THE MISSING NUMBER IN THE SERIES: 3, 5, 9, 17, 33, ?
65.	WHAT IS THE NEXT NUMBER IN THE SERIES: 4, 9, 16, 25, 36, ?
66.	FIND THE NEXT NUMBER IN THE SERIES: 3, 6, 12, 24, ?
67.	WHAT IS THE MISSING NUMBER IN THE SERIES: 4, 8, 16, 32, ?
68.	FIND THE WRONG NUMBER IN THE SERIES: 2, 6, 12, 20, 30, 42.
69.	WHAT IS THE NEXT NUMBER IN THE SERIES: 3, 8, 18, 38, 78, ?
70.	FIND THE NEXT NUMBER IN THE SERIES: 5, 10, 15, 20, 25, ?
71.	WHAT IS THE MISSING NUMBER IN THE SERIES: 1, 3, 6, 10, 15, ?
72.	FIND THE MISSING NUMBER: 2, 5, 10, 17, ?
73.	WHAT IS THE NEXT NUMBER IN THE SERIES: 6, 11, 16, 21, ?
74.	WHAT IS THE NEXT NUMBER IN THE SERIES: 9, 16, 25, 36, ?
75.	FIND THE NEXT NUMBER IN THE SERIES: 3, 5, 7, 9, 11, ?
76.	WHAT IS THE NEXT NUMBER IN THE SERIES: 15, 20, 25, 30, ?
77.	FIND THE MISSING NUMBER IN THE SERIES: 8, 16, 32, 64, ?
78.	WHAT IS THE NEXT NUMBER IN THE SERIES: 100, 90, 80, 70, ?
79.	FIND THE NEXT NUMBER IN THE SERIES: 6, 18, 54, 162, ?
80.	WHAT IS THE NEXT NUMBER IN THE SERIES: 10, 15, 20, 25, ?

QUADRATIC EQUATIONS (20 QUESTIONS):-

81.	SOLVE THE QUADRATIC EQUATION: $X^2-7X+12=0$
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82.	IF $X^2+4X-21=0$, FIND THE ROOTS OF THE EQUATION.
83.	SOLVE THE EQUATION $2X^2-3X-5=0$
84.	FIND THE ROOTS OF THE EQUATION $X^2+7X+10=0$
85.	SOLVE: $X^2-9X+20=0$
86.	FIND THE VALUE OF X FOR THE EQUATION $X^2+6X-7=0$
87.	SOLVE THE QUADRATIC EQUATION $X^2-5X+6=0$
88.	FIND THE ROOTS OF THE EQUATION $X^2-4X-5=0$
89.	SOLVE THE QUADRATIC EQUATION $3X^2+8X-12=0$
90.	SOLVE: $X^2-6X+9=0$
91.	FIND THE ROOTS OF THE EQUATION $2X^2-7X+3=0$
92.	SOLVE THE QUADRATIC EQUATION $4X^2-12X+9=0$
93.	SOLVE THE EQUATION $X^2+8X+15=0$
94.	FIND THE ROOTS OF THE EQUATION $3X^2-14X+8=0$
95.	SOLVE $X^2+5X+6=0$
96.	FIND THE ROOTS OF $5X^2+10X+5=0$.
97.	SOLVE $X^2-2X-3=0$
98.	SOLVE THE EQUATION $X^2+3X-4=0$
99.	SOLVE THE QUADRATIC EQUATION $X^2-7X+12=0$
100.	SOLVE: $X^2+5X-14=0$

THANKS.

PLEASE COMMENT IN COMMENT BOX.

ANSWER KEYS:-

Q.NO	ANSWER	Q.NO	ANSWE R	Q.NO.	ANSWER	Q.NO.	ANSWE R	Q.NO	ANSWER
1	₹2,000	21	54	41	₹ 14,000	61	30	81	X=3,4
2	22.5 seconds	22	29	42	680 UNITS	62	85	82	X=3,-7
3	A = 25 YEARS, B = 40 YEARS	23	45	43	₹ 7,00,000	63	42	83	X=2,-5/2
4	A = 18 YEARS, B = 42 YEARS	24	70	44	150	64	65	84	X=-2,-5
5	₹400	25	44	45	60	65	49	85	X=4,5
6	₹9,000	26	54	46	82.5	66	48	86	X=1,-7
7	₹270	27	29	47	₹ 35,600	67	64	87	X=2,3
8	3 DAYS	28	52	48	₹ 75,000	68	30	88	X=5,-1
9	25 METERS	29	71	49	80 FEMALES	69	158	89	X=1,-4
10	12 KM/H	30	41	50	80	70	30	90	X=3
11	18 KM/H	31	30	51	$40120=13\frac{40}{120}$ $=\frac{1}{3}12040=31$	71	21	91	X=3,1/2
12	₹ 1,260	32	40	52	80 BOYS	72	26	92	X=3/2
13	36 METERS	33	52	53	22.67°C	73	26	93	X=-3,-5
14	360 METERS	34	58	54	300	74	49	94	X=8/3,2
15	30 KM/H	35	17	55	₹ 40,000	75	13	95	X=-2,-3
16	₹ 1,750	36	19	56	24 BOYS	76	35	96	X=-1
17	₹ 5,850	37	20	57	14,000	77	128	97	X=3,-1
18	6,000 SQUARE METERS	38	5	58	72 APPLES	78	60	98	X=1,-4
19	₹ 17,460	39	27	59	60	79	486	99	X=3,4
20	₹ 1,600	40	27	60	₹ 32,500	80	30	100	X=-7,2