

Math Marathon Questions 2023-24**Class-6**

1. What is the least 3 digits square number that can be read from left or right gives the same answer? [121]
2. How many three quarters are there in 9 ? [12]
3. How many halves are there in $20\frac{1}{2}$? [41]
4. What is the two digit number that makes a perfect square and a cube number? [64]
5. How much is 500 divided by 0.5? [1000]
6. What is the next two numbers in the sequence 1, 3, 7, 15, ----, -----? [31,63]
7. What are the 3 consecutive prime numbers which have a difference of 2? [3,5,7]
8. How many edges does a cuboid have altogether? [12]
9. The boiling point and freezing point of a liquid are 73°C and -27°C respectively. What is the difference between these two points? [100°C]
10. The product of the ages of 3 brothers is 20 years. If two of them are twins, how old is the other? Assuming that their ages are whole numbers greater than one . [5 yrs.]
11. How much is 2^{12} minus 2^{11} ? [2^{11}]
12. What is the minimum value of x, if $(x-8)^2 = 100$? [-2]
13. If $x=7$ and $y=-3$, what is the value of $x - y$? [10]
14. What are the prime numbers between 20 and 35 ? [23, 29, 31]
15. What is the number, if ten times a number is equal to 5 times 20 ? [10]
16. What are the prime factors of 111? [3 and 37]
17. What is the area, if the perimeter of a square is 16 ? [16 cm^2]
18. How many diameters can be drawn from the centre of the circle? [Infinite]
19. What is a set called that has no elements in it? [Empty/Void/Null set]
20. What is a set called that has only one element in it? [Singleton set]
21. What is the sets called that have no elements common in it? [Disjoint sets]
22. What is the sets called that have some elements common in it? [Overlapping sets]
23. What is the biggest number that can be written with four 1s? [11^{11}]
24. What is the biggest number that can be written with two 9s? [9^9]
25. What power of 10 gives a million?[6]
26. What power of 10 gives a billion?[9]
27. What power of 10 gives a trillion?[12]
28. What is the next two numbers in the given sequence? 5, 10, 15, 20,, [25, 30]
29. What does CD in Roman number mean? [400]
30. How much is 0.25 times 200? [50]
31. What is the difference of, $\frac{4}{5}$ and $\frac{2}{5}$? [$\frac{2}{5}$]
32. How much is $5\frac{1}{2}\text{ m}$ in cm? [550 cm]
33. How much is $\frac{3}{4}$ of 120 kg ? [90 kg]
34. What does DC in Roman number mean? [600]
35. What is the sum of 53.7 and 46.3 ? [100]
36. If $a = 1$, $b = 2$, $c = 3$, what is the value of $a^2 + b^2 + c^2$? [14]
37. What is the sum of 10^2 and 11^2 ? [221]
38. What is the product of 0.27 and 300 ? [81]
39. How much is $\frac{3}{4}$ of Rs. 100 ? [75]
40. What is the H.C.F. of 2, 3, 4 ? [1]
41. What is the sum of 4 fifth and 6 fifth ? [2]
42. What is the cube of 4 ? [64]
43. What is the square root of 121 ? [11]
44. What is the product, if 3 is multiplied by 37 ? [111]
45. If $\frac{1}{2}$ of a number is $\frac{7}{2}$, what is the number? [7]
46. What is the complement of 50° ? [40°]
47. How many right angles are there in an angle of 360° ? [4]
48. If $a = 5$ and $a + b = 12$, how much is b? [7]
49. What is the quotient, if 1 is divided by $\frac{1}{2}$? [2]
50. What is the complement of an angle of 90° ? [0°]
51. How much is 87 added to 24? [111]
52. What is the supplement of an angle of 160° ? [20°]
53. What is the difference between the largest number of 5 digits and smallest number of 6 digits? [1]
54. What is the sum of the largest number of 2 digits and the smallest number of 3 digits ? [199]
55. How many digits are there in one lakh? [6 digits]
56. How many hundreds are there in 7770? [77]
57. What is CM in Roman number? [900]
58. How much is 12×12 ? [144]
59. How much is $121 \div 11$? [11]
60. What is the half of 350? [175]
61. What are the possible numbers can be formed using the digits 2 and 7 without repeating the digits? [27, 72]
62. How many 2-digit numbers are there in all? [90]
63. How many times does the digit 9 occur between 1 and 100? [20]
64. How many thousands make a crore? [10,000 – Ten Thousand]
65. What is the product of the smallest whole number and the smallest natural number? [zero]
66. What are the prime numbers less than 10? [2, 3, 5, 7]
67. What is the smallest composite number? [4]
68. What is the smallest odd composite number? [9]
69. What is the HCF of two prime numbers? [1]
70. What is the product of the smallest 5-digit number and the smallest natural number? [10000]
71. What is the quotient, if $(5^2 + 5)$ is divided by 10? [3]
72. What is the quotient, if the largest 2-digit number is divided by 3. [33]
73. What is the square root of 144? [12]
74. What is the sum of the three angles of a triangle? [180]
75. What is the magnitude of the angle which is a complement of itself? [45°]
76. What is the number, which when divided by 12 gives 8? [96]
77. If 20% of a number is 40, what is the number? [200]
78. What does XL in Roman number mean? [40]
79. What is the smallest number formed by the digits 9, 0, 1, 8 by using once? [1089]
80. How many tens are there in 110? [11]
81. How many millions are there in one crore? [10]
82. The cost of 4 pens is Rs. 100. How much is the cost of a pen? [Rs. 25]
83. How much is $74 + 26$? [100]
84. If $x = 7$, then what is the value of $x + \frac{x}{7}$? [8]
85. How many right angles are there in a straight angles? [2]

86. What is the H.C.F. of 1, 2 and 3 ? [1]
87. What is the L.C.M. of 1, 2 and 3 ? [6]
88. If $x = 1$ and $y = 3$, what is the value of $[x + y]^2$? [16]
89. What is the next two numbers in the given sequence? 1, 4, 9, 16, 25,, [36, 49]
90. How many months are there in $8\frac{1}{3}$ years? [100]
91. What is the sum, when 3 fourth is added to 5 fourth ? [2]
92. What is the H.C.F. of 32 and 48 ? [16]
93. How many halves are there in 12 and a half? [25]
94. $\frac{2}{7}$ of a number is $\frac{2}{7}$, what is the number? [1]
95. What is the L.C.M. of 3, 5, 15 ? [15]
96. What is the sum of 53.7 and 46.3 ? [100]
97. What is the sum of three fourth and one-fourth? [1]
98. How much is 2% of 7200 m ? [144 m]
99. What are the two prime factors of 111? [3 and 37]
100. How much is $\frac{1}{2}$ of 12 weeks in days? [42]
101. What will be the difference if minus 7 is subtracted from 7? [14]
102. In an exam, 3 boys got 15, 20 and 25 marks. How much is their average marks? [20]
103. How much is $\frac{1}{10}$ of an hour in seconds? [360 sec.]
104. A cyclist covers 15 km in an hour. How many hours will he take to cover 90 km? [6 hrs]
105. What are the next two numbers in the given sequence? 1, 4, 8, 9, 27, 16, ..., [64, 25]
106. What are the two whole numbers which neither contains any zeros, when multiplied together equals exactly 1000? [8x125]
107. How much is $(2^3)^2$? (64)
108. 10 of the 40 students are girls. What % are girls? (25%)
109. $10 \div 10 \times 10 + 10 - 10 = ?$ (10)
110. If we add 3 to the double of a number, we get 25, what is the number? (11)
111. What is the cube of 5 ? (125)
112. What is the square root of 625 ? (25)
113. How much is 91 plus 20? (111)
114. What is XC in Roman number system? (90)
115. How many digits are there in 10 lakhs? (7)
116. $x = 2$, $y = 3$, $z = 1$, how much is $x^2y^2z^2$. (36)
117. How many 10 are there in 1000? (100)
118. Are the fractions $\frac{5}{7}$ and $\frac{40}{56}$ equivalent? (yes)
119. How many days are there in a leap year? (366)
120. What is the prime number after 50? (53)
121. What are the least 3 numbers whose sum and product are same? (1, 2, 3)
122. What is the value of 50% of RS 500? (Rs. 250)
123. If $x = 3$, then how much is $1 + \frac{6}{x}$? (3)
124. How much is 1 % of Rs. 100? (Re 1)
125. How much is $5xy + 4xy$? (9xy)
126. If $a = 5$ and $b = 7$, how much is $(a + b)^2$? (144)
127. If $a = 1$ and $b = 2$, how much is $a^3 + b^3$? (9)
128. A man spends $\frac{1}{4}$ of Rs. 100, how much is left with him? (Rs. 75)
129. How much is 50% of 25 times 4? (50)
130. What is the L.C.M. of 5, 10, 15 ? 30)
131. What is the H.C.F. of 8, 24, 32 ? (8)
132. What is the sum of first 3 multiples of 5 ? (30)
133. How many $\frac{1}{2}$ kg tins can be filled by 50 kg of jam? (100)
134. What is the average of 10, 20 and 30 is? (20)
135. What should be added to 65 to make it 90? (25)
136. How much is $121 \div 11$? (11)
137. How much is $111 \div 3$? (37)
138. How much is $45 + 54$? (99)
139. How much is $77 + 34$? (111)
140. How much is $43 + 57$? (100)
141. The cost of a pen is Rs. 25, how much is the cost of 8 pens? (Rs. 200)
142. How much is $2a \times 3a \times 4a$? ($24a^3$)
143. How much is the result if a^2 is subtracted from $a^2 + b^2$? (b^2)
144. How much is $(2^2)^3$? (64)
145. How much is $(x^5)^6$? (x^{30})
146. What types of angles are 60° and 100° ? (Acute and obtuse)
147. What kinds of angles are 90° and 180° ? (right and straight)
148. If $a = 5$ and $b = 10$. How much is $5ab$? (250)
149. How much is $x^2 + y$, if $x = 5$ and $y = 25$? (50)
150. How many zeros are there in 10 billions? (10)
151. How much is 150 in Roman number? (CL)
152. What is the value of MMD? (2500)
153. How many lakhs are there in one crore? (100)
154. What are the prime numbers between 10 and 20? (11, 13, 17, 19)
155. What are the prime factors of 77? (7, 11)
156. What are the composite numbers less than 7? (4, 6)
157. What is the HCF of 20 and 40? (20)
158. What is the LCM of 4 and 14? (28)
159. What is the sum of 54 and 44? (98)
160. What is the quotient, when 80 is divided by 5? (16)
161. What is the LCM of 9 and 12? (36)
162. What comes next? 2, 5, 10, 17, _____, _____. (26 and 37)
163. What comes next in the sequence? 3, 6, 11, 18, ____ (27)
164. What comes next? 917452, 97452, 9745, 975, ____? (97)
165. The cube root of a number is two times its square root. What is the number? (64)
166. A number when added with its half, the sum is 24, what is the number? (16)
167. A number when multiplied by itself the product is 361. What is the number? (19)
168. What will be the length of the side of the square whose area is 289 sq. cm? (17cm)
169. The numbers are in the ratio 7:5 and their sum is 132, find the numbers. (77,55)
170. If $x+10 = 20$, how much is x ? (10)
171. What is the sum of $1 + 2 + 3 + 4 + 5 + 6 + 7 + 8 + 9 + 10$? (55)
172. What is the value of 100^0 ? (1)
173. What is the quotient when 50 is divided by 0? ($\infty =$ infinite)
174. What is zero called in Roman number? (No zero in Roman number)
175. What is a four sided polygon called ? (quadrilateral)
176. What is the sum of the angles of a rectangle? (360°)
177. What is quotient when, 600 is divided by 12? (50)
178. What is the prime number that comes right after 19? (23)