81. If one-third of one-seventh of a number is 15, then two-fifth of that number is
a. 158 b. 165 c. 142 d. 136 e. 126

82. The simple interest obtained when a sum of money is invested for 4 years at 18% per annum is ₹ 427 more than the simple interest obtained if the same sum of money is invested for 2 years at 22% per annum. What is the amount obtained when the same sum of money is invested for 4 years at 18% per annum?
a. ₹ 2130 b. ₹ 2623 c. ₹ 1096
d. ₹ 1854 e. ₹ 2475

83. Train A, whose length is 328 m, can cross a 354 m long platform in 11 seconds. Train B can cross the same platform in 12 seconds. If the speed of Train B is 7/8th of the speed of Train A, what is the length of Train B?
a. 321 m b. 303 m c. 297 m d. 273 m e. 309 m

84. The ratio of number of males and number of females in village X is 11:7 respectively. If in village Y, the number of males is 20% more than the number of males in village X and the number of females is 12% less than those in villageX, then what will be the respective ratio of males to females in village Y?
a. 15 : 11 b. 17 : 5 c. 17 : 11
d. 23 : 9 e. 15 : 7

85. The areas of two circular fields are in the ratio of 25 : 64 respectively. If the radius of the latter is 16 m then what is the radius of the former?
a. 14 m b. 10 m c. 6 m d. 18 m e. 8 m

86. 16 times X is equal to 5 times Y. If 8 is subtracted from Y it is 10 more than 2 times X. What is the sum of X and Y?
a. 78 b. 39 c. 48 d. 92 e. 63

Directions (Q. Nos. 87-91) *Study the table and answer the given questions.*

Number of Pages Printed by 5 Printers in 5 Days

Day	Printer				
	M	N	O	P	Q
Monday	196	145	254	169	291
Tuesday	125	172	233	141	297
Wednesday	167	189	243	223	189
Thursday	219	233	158	256	284
Friday	240	289	153	251	271

87. If the total number of pages printed by all the given printers together on Saturday was 18% more than the total number of pages printed by all the given printers together on Thursday, what was the total number of pages printed by all the given printers together on Saturday?
a. 1379 b. 1299 c. 1357
d. 1289 e. 1331

88. What is the respective ratio between total number of pages printed by printer O on Tuesday and Wednesday together and total number of pages printed by printer Q on Monday and Tuesday together?
a. 17 : 21 b. 17 : 19 c. 19 : 21
d. 17 : 23 e. 19 : 23

89. What is the sum of 58% of the total number of pages printed by printers M and O together on Monday and 65% of the total number of pages printed by printers N and Q together on Friday?
a. 610 b. 655 c. 575 d. 625 e. 640

90. Number of pages printed by printer N on Tuesday is what percent of the number of pages printed by printer M on Friday?
a. $71\frac{2}{3}\%$ b. $69\frac{2}{3}\%$ c. $74\frac{1}{3}\%$
d. $65\frac{1}{3}\%$ e. $77\frac{2}{3}\%$

91. What is the average number of pages printed by printer P during all the given days together?
a. 214 b. 204 c. 208 d. 218 e. 198

92. Glenn labelled the price of an article in such a way so as to earn 25% profit. However, while selling he offered 6% discount on the labelled price. If the sold it for ₹ 10340, what was the cost price of the article?
a. ₹ 9200 b. ₹ 8000 c. ₹ 8800
d. ₹ 8600 e. ₹ 8400

93. In what ratio Martina should mix two varieties of juice worth ₹ 52 per litre and ₹ 74 per litre so that by selling the mixture at ₹ 71.28 per litre she can earn a profit of 8%?
a. 6 : 7 b. 3 : 7 c. 5 : 8 d. 4 : 7 e. 3 : 8

94. The difference between length and breadth of a rectangle is 17m and the perimeter is 106m. Find the area of rectangle?
a. 716 m^2 b. 660 m^2 c. 630 m^2
d. 740 m^2 e. 524 m^2

95. Present ages of three persons A, B, C are in the ratio of 6 : 7 : 9 respectively. After 5 years, sum of their ages will be 81 years. Find the present age of B?
a. 21 years b. 28 years c. 35 years
d. 14 years e. 42 years

96. Two pipes can fill a tank in 10 hours and 16 hours respectively. A third pipe can empty the tank in 40 hours. If all the three pipes are opened and function simultaneously then in how much time the tank will be full?
a. $6\frac{1}{11}$ h b. $9\frac{9}{11}$ h c. $8\frac{9}{11}$ h
d. $7\frac{3}{11}$ h e. $6\frac{5}{11}$ h

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97. The average monthly income of A and B is ₹ 7760. The average monthly income of B and C is ₹ 10990 and that of C and A is ₹ 9070. What is the annual income of B?

a. ₹ 120240 b. ₹ 124480 c. ₹ 112360
d. ₹ 128120 e. ₹ 116160

98. Scheme A offers compound interest (compounded annually) at a certain rate of interest (percent per annum) When a sum was invested in the scheme it amounted to ₹ 14112 after 2 years and ₹ 16934.40 after 3 years. What was the sum of money invested?

a. ₹ 9000 b. ₹ 10200 c. ₹ 8800
d. ₹ 9400 e. ₹ 9800

99. Mr. Sharma distributed an amount of money among his wife, one son and one daughter and kept some money for himself. 12% of the total amount he gave to his wife and kept 22% for himself. Out of the remaining amount, he gave to his son and daughter in the ratio of 7 : 8 respectively. If the daughter got ₹ 3806 more than the son, what was the total amount that Mr. Sharma had?

a. ₹ 60000 b. ₹ 78650 c. ₹ 86500
d. ₹ 80500 e. ₹ 72400

Directions (Q. Nos. 100-119) *What will come in place of question mark (?) in the given questions?*

100. $\dfrac{(415+223)^2+(415-223)^2}{(415\times415+223\times223)}=?$

a. 2 b. 5 c. 3 d. 6 e. 4

101. $(349+583)/23.3+428=?/9$

a. 4068 b. 3870 c. 4203
d. 4158 e. 4212

102. $56-742/53/2=?^2$

a. 3 b. 4 c. 6 d. 7 e. 2

103. $[1496-392]/23\times15=213+?$

a. 477 b. 437 c. 539
d. 507 e. 517

104. $9^2\times\sqrt[4]{(1296)}-254=(?\times9+151)$

a. 14 b. 9 c. 6 d. 12 e. 20

105. $5136/(523+333)$ of $3/4+459=?$

a. 520 b. 541 c. 513 d. 493 e. 467

106. $64^2-36^2=?\times25$

a. 118 b. 212 c. 112
d. 134 e. 106

107. 2/3 – 5/7 of 21/23 of 46/51 = ? of 8/85

a. 1/6 b. 5/6 c. 5/7
d. 2/17 e. 1/3

108. $4^3\times2^6\times8^{2/3}=2^?$

a. 10 b. 16 c. 14 d. 8 e. 12

109. $\dfrac{\sqrt{(180)}\times\sqrt{(18)}\times\sqrt{(5)}\times\sqrt{(3)}}{\sqrt{(96)}\times5}=?$

a. $5\frac{1}{2}$ b. $2\frac{3}{4}$ c. $1\frac{1}{2}$ d. $4\frac{1}{2}$ e. $5\frac{2}{3}$

110. 2560/32 + 23/45 of 855 = 7/11 of ? + 391

a. 297 b. 198 c. 132 d. 176 e. 275

111. 156.25/12.5 × 1000/2500 = ? / 28

a. 147 b. 140 c. 112 d. 168 e. 196

112. $\sqrt{(337+\sqrt{(561+\sqrt{225})})}+?=576/8$

a. 51 b. 59 c. 53 d. 42 e. 45

113. $13^2-\sqrt{(1764)}\times\sqrt{(625)}/21=?$

a. 129 b. 139 c. 121 d. 153 e. 119

114. 150% of 240 + 125% of 1684 = [? – 345] × 493

a. 350 b. 450 c. 370
d. 368 e. 410

115. 319, 320, 347, 472, 815, ?

a. 1322 b. 1265 c. 1435 d. 1148 e. 1544

116. 12, 6.5, 7.5 ,12.75, 27.5, ?

a. 65.5 b. 58.25 c. 71.25
d. 55.75 e. 52

117. 5, 6, 14, 45, ?, 925

a. 138 b. 184 c. 172 d. 98 e. 154

118. 112, 117, 127, 142, 162, ?

a. 214 b. 187 c. 194 d. 182 e. 205

119. 4, 7, 20, 79, ?, 2363

a. 234 b. 148 c. 296 d. 482 e. 394

120. A, B and C started a business together. The respective ratio of investments of A and B was 3 : 5 and the respective ratio of investments of B and C was 10 : 13. If at the end of the year C received ₹ 5876 as his share of annual profit, what was the total annual profit earned by all of them together?

a. ₹ 13108 b. ₹ 12756
c. ₹ 13224 d. ₹ 12984
e. ₹ 12188

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