81. How many 5-digit numbers are there in all?

    1) 99999
    2) 10000
    3) 89999
    4) 90000

Ans. 3) 89999   *(by subtracting 99999-10000 = 89999)*

82. Find the greatest number which divides 285 and 1249 , leaving remainders 9 and 7 respectively.

    1) 138
    2) 128
    3) 118
    4) 148

Ans. 138   *Hint : find the H.C.F of 285 and 1249*

83. The population of a town doubles every 5 years. If the population at the end of 2000 was 320000, what was it at the beginning of 1961?

    1) 1250
    2) 80000
    3) 120000
    4) 160000

Ans. 4) 160000

84. Simplify : $5\dfrac{1}{2}$ of $\left(2/3 - 3/5\right) + \frac{1}{2} \div 5/11$

    1) $1\dfrac{7}{15}$

    2) $1\dfrac{4}{15}$

3) 1 $\dfrac{8}{15}$

4) 1 $\dfrac{2}{15}$

Ans.

1)   1 $\dfrac{7}{15}$ *Hint : use **BODMAS** rule*

85. For Rs. 1000, 10000 kgs are carried 100 kms by goods train. If the rate of carriage by ship is one-fourth of that by rail, for how many kms can 8000 kgs be carried for Rs. 800 by ship ?

1) 256
2) 400
3) 500
4) 625

Ans. 400

86. A copper wire when bent in the form of a square encloses an area of 121 sq. c.m. If the same wire is bent in the form of a circle, find the area enclosed by it.

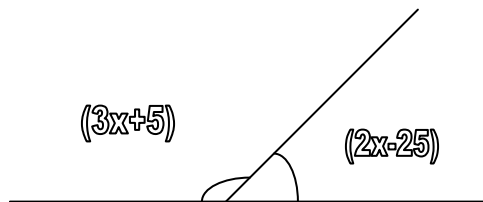1) 121 sq. cm
2) 134 sq. cm
3) 141 sq. cm
4) 154 sq. cm

Ans. 1) 121 sq. cm

87. Mona's father is thrice as old as Mona. After 12 years, his age will be twice that of his daughter. Find their present ages.

   1) Mona 11, Father 33
   2) Mona 12, Father 36
   3) Mona 13, Father 39
   4) Mona 14, Father 42

Ans. 2) Mona 12, Father 36

88. In the adjoining figure what value of x will make AOB a straight line ?

   1) 65º
   2) 45°
   3) 55º
   4) 40º

Ans. 4) 40º

89. Of a total amount of Rs. 2449, B receives 20% more than A and 25% more than C. What then is B's share?

   1) Rs.697.5
   2) Rs.700
   3) Rs.930
   4) Rs.948

Ans. 4) Rs.948

90. An Electrician sells a room heater for Rs.332, getting $1/6^{th}$ of its cost price. Find the gain percent.

   1) $12\dfrac{2}{3}$ %

2) $13\dfrac{2}{3}$ %

3) $14\dfrac{2}{3}$ %

4) $16\dfrac{2}{3}$ %

Ans. 4) $16\dfrac{2}{3}$ %

91. $\dfrac{(0.03)^2 + (0.11)^2 + (0.013)^2}{(0.003)^2 + (0.011)^2 + (0.0013)^2} = \,?$

1) 0.01
2) 0.1
3) 10
4) 100

Ans. 4) 100

92. A TV agent entitiles to $1\dfrac{3}{4}$ % commission earns Rs. 10620.75 in a year by selling

170 TV sets. What is the price of each set?

1) Rs.3340
2) Rs.3450

3) Rs.3570
4) Rs.3740

Ans. 3) Rs.3570

93. If A : B = 5:8 and B:C = 18:25, find A:C?

1) 9:20
2) 20:9
3) 5:18
4) 8:25

Ans. 1) 9:20

94. Two taps can fill a cistern in 8 hours and 16 hours respectively and one can empty it in 12 hours. If all three are opened simultaneously, what proportion of the cistern is filled in 6 hours?

1) ½
2) 5/6
3) ¾
4) 5/8

Ans. Not known

95. $0.01 \times 0.01 + 0.01 \times 99.99 = ?$

1) 0.01
2) 0.1
3) 1
4) 100

Ans. 3) 1

96. A number has two digits whose sum is 9. if 27 is added to the number, its digits get interchanged. Find the number.

1) 45
2) 36
3) 27
4) 18

Ans. 2) 36

97. What is the value of x if 2x – y = 20 and x – 2y = 4?
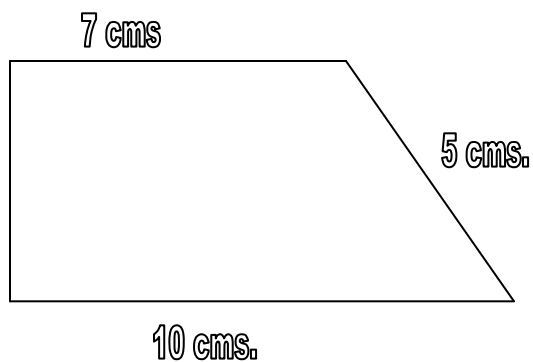
1) 3/16
2) 16/3
3) 9
4) 12

Ans. 4) 12

98. A does twice as much work as B in one day. If B can finish a piece of work in 30 days, in how many days can A and B together finish it?

1) 6
2) 10
3) 11
4) 12

Ans. 4) 12

99. What is the area of figure given below?

1) 24 sq. cms
2) 28 sq. cms
3) 34 sq. cms
4) 38 sq. cms

Ans. 3) 34 sq.cms

100. What should be subtracted from   - 2/5 to get 5/6 ?

   1) 2/5
   2) -3/5
   3) -2/5
   4) 3/2

Ans. 2) -3/2

101. $$\dfrac{\dfrac{35}{9}}{3+\dfrac{4}{3+\dfrac{3}{2}}} = ?$$

   1) 0
   2) ½
   3) 1
   4) 2

Ans. 3) 1

102. Two numbers are respectively 10% and 25% more than a third. What % is the first number of the second?

   1) 65
   2) 75
   3) 78
   4) 88

Ans. 4) 88

103. If 4/5 th of a bucket is filled in 1 minute, how much more time will be required to fill the rest of it?

1) 1/5 min
2) ¼ min
3) 1/6 min
4) 1/3 min

Ans. 2) ¼ min

104. The ratio of a man's and a woman's work is 5:3. If 3 men and 5 women take 17 days to do a piece of work, how many days will 5 men and 3 women take?

1) 15
2) 19
3) 10
4) 8

Ans. 4) 8

105. The wheels of a bus are 1m in diameter. What is the number of revolutions made by the wheels per minute when the bus is traveling at 33 kmph?

1) 2.91
2) 175
3) 17
4) 1750

Ans. 1) 2.91

Questions 106 through 112 are based on the data presented graphically in the figure given below:

Distribution of children in a colony according to the number of PC games they have
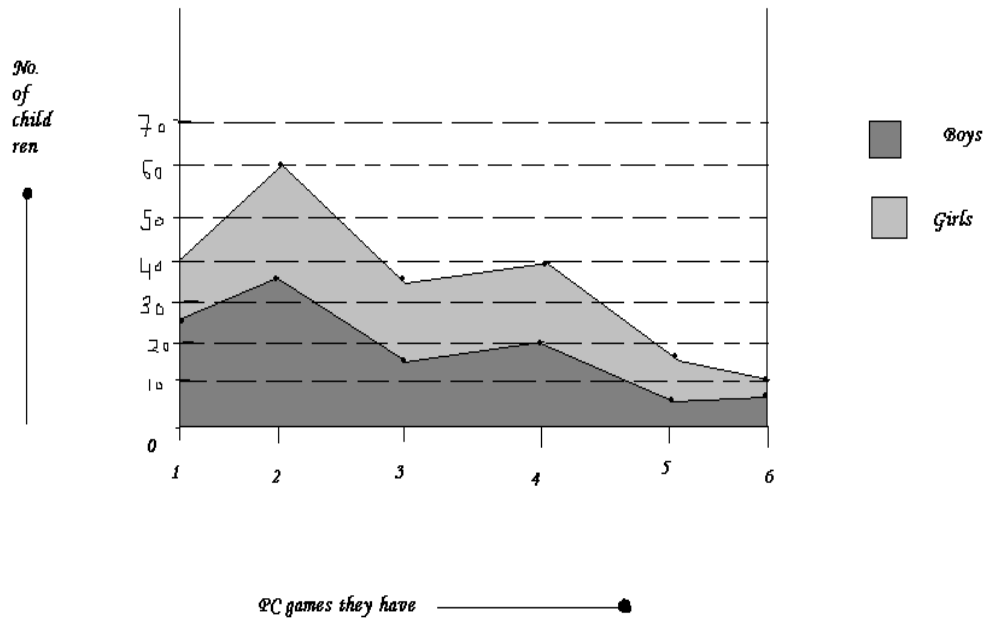
106. The total number of children in the colony is :

    1) 100
    2) 150
    3) 200
    4) 210

Ans. 4) 210

107. The total number of PC games that all the children have in between them is :

    1) 520
    2) 560
    3) 600
    4) 640

Ans. 4) 640

108. The total number of boys is :

 1) 105
 2) 100
 3) 115
 4) 110

109. The ratio of boys : girls is :

 1) 1:1
 2) 21:20
 3) 20:21
 4) 21:19

110. The number of boys with at least 3 PC games is :

 1) 35
 2) 40
 3) 45
 4) 50

111. The number of girls with less than 4 PC games is :

 1) 45
 2) 50
 3) 80
 4) 60

112. The ratio of boys to girls who have only 3 PC games is :

 1) 2:3
 2) 3:2
 3) 3:4
 4) 1:3

113. A carton contains 16 boxes of nails and each box weighs $4\frac{3}{4}$ Kg.

How much would a carton of nails weigh?

 1) 72 kg
 2) 74 kg
 3) 76 kg
 4) 78 kg

114. $(2^{-1} \times 5^{-1})^{-1} \div 4^{-1}$ is equal to :

   1) 40
   2) 50
   3) 60
   4) 80

115. Factorise : $p^2 + qr + pq + pr$

   1) (p + r) (p + qr)
   2) (p + r) (q + r)
   3) (p + q) (q + r) (r + p)
   4) (p + q) (p + r)

116. Two complimentary angles differ by 16^0. Find the angles.

   1) 53° , 37°
   2) 56°, 40°
   3) 62°, 28°
   4) 59°, 31°

117. Two adjacent angles of a parallelogram are $(2x + 25)^o$ and $(3x - 5)^o$. The value of x is :

   1) 28
   2) 32
   3) 36
   4) 42

118. How many cubes of 10 cm edge can be put in a cubical box of 1 m edge?

   1) 10
   2) 100
   3) 1000
   4) 10000

119. Two cubes have their volumes in the ratio 1:27. The ratio of their surface areas is :

    1) 1:3
    2) 1:9
    3) 1:27
    4) 1:81

Ans. 1) 1:3

120. If $ab = 6$ and $a + b = 5$ then the value of $a^2 + b^2$ is :

    1) 11
    2) 12
    3) 13
    4) 16

Ans. 3) 13

121. A brick is an example of a :

    1) Cube
    2) Cuboid
    3) Prism
    4) Cylinder

Ans. 2) cuboid

122. $(-1)^{273} = ?$

    1) -1
    2) 1
    3) 273
    4) -273

Ans. 1) -1

123. The maximum number of points of intersection of three lines in a plane is :

    1) 0
    2) 1
    3) 2
    4) 3

124. How many circles can be drawn to pass through three noncollinear points?

1) One
2) Two
3) Three
4) As many as we please

125. Log_a (mn) is equal to :

1) Log_a (m) + Log_a (n)
2) Log_a (m) - Log_a (n)
3) Log_a (m) × Log_a (n)
4) Log_a (m) ÷ Log_a (n)

126. The largest of the fractions 4/5, 4/7, 4/9, 4/11 is :

1) 4/11
2) 4/7
3) 4/5
4) 4/9

127. A'∩ A is equal to :

1) 0
2) 1
3) U
4) Ø

128. The value of $2 \dfrac{17}{100}$ is equal to :

1) 2.17
2) 0.217

3) 21.7
4) 217

129. Find x if 25, 35 and x are in proportion :

1) 17
2) 39
3) 49
4) 45

130. 0.4 + 0.004 + 4.4 = ?

1) 4.444
2) 5.2
3) 4.804
4) 5.404