Quantitative Aptitude

86. 13 16 22 33 51 (?)

(5) None of these

(5) None of these 88. 656 432 320 264 236 (?)

89. 62 87 187 412 812 (?)

87. 39 52 78 117 169 (?)

(1) 89

(3) 102

(3) 234

(1) 222

(3) 1337

90. 7 8 24 105 361 (?)

Give answer

(1) if x > y(2) if $x \ge y$

(4) if $x \le y$

(5) None of these

both the equations and—

Directions (Q. 76-80) What will come in place of question mark (?) in the following questions?

- **76.** $36 \times 15 56 \times 784 \div 112 = ?$
 - (1) 138
- (2) 238

- (4) 258
- (5) None of these
- 77. 28.314 31.427 + 113.928 = ? + 29.114
 - (1) 81.711
- (2) 80.701
- (3) 71.711
- (4) 81.701
- 78. $\frac{2}{3}$ of $1\frac{2}{5}$ of 75% of 540 =?
 - (1) 378
- (2) 756
- (3) 252
- (4) 332
- (5) None of these
- **79.** 36% of 420 56% of 350 = ? 94
 - (1) 48.2
- (2) 49.2
- (3) -138.8
- (4) -158.8
- (5) None of these
- **80.** $(\sqrt{9})^3 \times (\sqrt{81})^5 \div (27)^2 = (3)^{(?)}$
 - (1) 5

(2) 4

- (4) 6
- (5) None of these

www.educationobserver Directions (Q. 81-85) What approximate value will come in place of question mark (?) in the following questions? (You are not expected to calculate the exact

- 81. $1599 \times 199 \div 49 1398 + 3877 = ?$
 - (1) 9400
- (3) 8700
- (4) 8400
- (5) 9200
- **82.** $7\frac{7}{12} \times 6\frac{7}{19} \div 9\frac{1}{3} = ?$

(3) 2

- (4) 5
- (5) 13
- **83.** 21.7% of 514.9 43.44 = $\frac{?}{5.5}$
- (2) 335
- (3) 475
- (4) 375
- **84.** 4433.764 2211.993 1133.667 + 3377.442 = ?
 - (1) 4466
- (2) 4377
- (3) 3633
- (4) 4144
- (5) 3344
- **85.** $(13.96)^2 (15.03)^2 + (18.09)^2 32.65 = ?$
 - (1) 223
- (2) 264
- (3) 334
- (4) 354
- (5) 201

- **94.** I. $x^2 365 = 364$

II. $\sqrt{225}v + 2 = 0$

- **95.** I. $3x^2 + 3x + 4 = 0$
- 96. The total area of a circle and a square is equal to 5450 sq. cm. The diameter of the circle is 70 cms. What is the sum of the circumference of the circle and the perimeter of the square?
- (2) 380 cm

Directions (Q. 86-90) What will come in place of

(2)78

(4) 69

(4) 223

(4) 1457

Directions (Q. 91-95) In the following questions two

equations numbered I and II are given. You have to solve

(5) if x = y or the relationship cannot be established

question mark (?) in the following number series?

- (4) Cannot be determined
- (5) None of these

97.	The ratio between the speed of a train and a car is 16 respectively. Also, a bus covered a distance of 480 k 8 h. The speed of the bus is three-fourth the speed of train. How much distance will the car cover in 6 h? (1) 450 km (2) 480 km (3) 360 km (4) Cannot be determined.	n in Varanasi and Jodhpur together ?				
98.	(5) None of these Ram's present age is three times his son's present age two-fifth of his father's present age. The average of present ages of all of them is 46 years. What is difference between the Ram's son's present age and R father's present age? (1) 68 years (2) 88 years (3) 58 years (4) Cannot be determined (5) None of these	and (1) 464 (2) 484 the (3) 536 (4) 556 the (5) None of these				
99.	Twenty per cent of Anuj's annual salary is equal seventy five per cent of Raj's annual salary. Raj's more salary is 60% of Ravi's monthly salary. If Ravi's an salary is ₹ 1.44 lakh. What is Anuj's monthly salary? (1) ₹ 270000 (2) ₹ 27000 (3) ₹ 324000 (4) ₹ 5400 (5) None of these	hly ual 4.0 4.0				
100.	The largest and the second largest angles of a triangle in the ratio of 3:2 respectively. The smallest angle is of the sum of the largest and the second largest an What is the sum of the smallest and the second larges? (1) 80° (2) 60° (3) 100° (4) 90° (5) None of these www.educati	o% les. gest 1.5 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0				
	Directions (Q. 101-105) Study the information can	2002 2003 2004 2005 2006 2007				
	to answer the questions that follow. In a school there are 1200 students who have visited different cities viz. Delhi, Kolkata, Varanasi, Mumbai Jodhpur. Forty five per cent of the total students are I Thirty per cent of the total girls visited Mumbai. Two-fit the total girls visited Delhi. Number of girls who vi Jodhpur is half of the girls visited Delhi. Two third or remaining girls visited Kolkata. Total number of students visited Mumbai is 300. Twenty per cent of the total visited Delhi. Forty per cent of the total boys visited Jodh Equal number of boys visited Kolkata and Varanasi.	 106. What was the average number of students in all the Schools together in the year 2006? 30000 9000 30000 None of these 107. How many times the total number of students in all the three Schools A, B and C together was exactly equal among the given years? 2 3 4 5 None of these 108. Total number of students in School B and School C together in the year 2004 was approximately what 				
101.	What is the total number of students who visited Varan (1) 78 (2) 69 (3) 102 (4) 103 (5) None of these	percentage of the total number of students in School B and School C together in the year 2007? (1) 85 (2) 80 (3) 75 (4) 184 (5) 131				
	What is the respective ratio between the number of visited Kolkata and number of boys visited Mumbai (1) 22:51 (2) 23:51 (3) 21:55 (4) 51:22 (5) None of these	irls 109. What was the difference between the total number of students in all the schools together in the year 2003 and number of students in School B in the year 2005? (1) 2000 (2) 3000 (3) 3500 (4) 2500				
	Total number of students who visited Jodhpu approximately what per cent of number of girls visited Delhi? (1) 111 (2) 91 (3) 132 (4) 32 (5) 72					

Directions (Q. 111-115) Study the following table carefully to answer the questions that follow

Number of Officers (in thousands) Passed Out from Five **Different Academies During Six Different Years**

Academies Years	Air Force	Army	Navy	Coast Guard	BSF
2004	1.4	4.2	0.6	1.7	2.6
2005	1.7	5.1	0.9	2.8	3.1
2006	0.9	7.7	1.2	1.6	4.7
2007	2.4	3.6	1.8	4.7	5.8
2008	1.3	4.5	2.9	5.1	6.4
2009	2.7	3.9	3.5	3.9	4.3

- 111. What was the average number of officers passed out from all the academies together in the year 2007?
 - (1) 1830
- (2) 3660
- (3) 3.66 lakh

- (4) 1.83 lakh
- (5) None of these
- 112. In which academy the number of the officers passed out continuously increased during the year 2004 to 2009?
 - (1) Air Force
- (2) Army and BSF only
- (3) Navy only
- (4) Coast Guard
- (5) BSF and Navy only
- 113. What was the respective ratio between the number of officers passed out from Air Force academy in the year 2006 and number of officers passed out from Coast Guard academy in the year 2009?
 - (1) 30:17

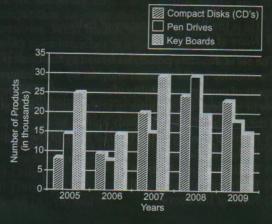
- (4) 45:13
- (5) Nowepost these ucation observer
- 114. Number of officers passed out from BSF academy in the year 2008 was approximately what per cent of the total number of officers passed out from Army academy over all the years together?
 - (1) 12
- (2) 19
- (3) 33

- (4) 28
- (5) 22
- 115. In which academy the total number of officers passed out over all the years together was the maximum?
 - (1) Air Force
- (2) Army
- (3) Navy

- (4) Coast Guard
- (5) BSF

Directions (Q. 116-120) Study the following graph carefully and answer the questions that follow.

Three Different Products (in thousands) Produced by a Company in Five Different Years



- 116. What was the average number of Pen-drives produced by the company over all the years together?
 - (1) 1700
- (2) 1.7 lakh
- (3) 17000
- (4) 85000
- (5) None of these
- 117. What was the total number of all the products produced by the company in the year 2006 and 2008 together?
 - (1) 10750
- (2) 107.5 lakh
- (3) 105700
- (4) 10570
- (5) None of these
- 118. What was the respective ratio between the number of CDs. produced by the company in the year 2009 and the number of Keyboards produced by the company in the year 2005?
 - (1) 9:10
- (2) 11:10
- (3) 10:9
- (4) 10:11
- (5) None of these
- 119. What is the difference between the total number of Pen-drives and CDs produced by the company together in the year 2008 and the number of key boards produced by the company in the year 2006?
 - (1) 40000
- (2) 4000
- (3) 35000
- (4) 3500
- (5) None of these
- 120. What was the respective ratio between the number of Key boards produced by the company in the years 2006, 2007 and 2009?
- (2) 1:2:2
- (3) 2:1:3 crum (5) None of these
 - (4) 1:2:1
- 121. A man crosses a stationary train in 12 min. The same train crosses a man in 54 s. What was the respective ratio between the speed of the train and the man?
 - (1) 40:7
- (2) 400:3

- (5) None of these
- 122. If a number is subtracted by two-third of 75 per cent of 600, the value so obtained is 320. What is the number?
 - (1) 300
- (2) 620
- (3) 720
- (4) 500
- (5) None of these
- 123. The ratio between the angles of a quadrilateral is 7:2:5:6respectively. What is the sum of double the smallest angle and half the largest angle to the quadrilateral?
 - (1) 162°
- (2) 198°
- (3) 99°
- (4) 135°
- (5) None of these
- 124. 3 men can complete a piece of work in 6 days. 5 women can complete the same work in 18 days. In how many days will 4 men and 10 women together complete the same work?
 - (1) 3 days
- (2) 5 days
- (3) 2 days
- (4) 4 days
- (5) None of these
- 125. The sum of five consecutive numbers is 270. What is the sum of the second and the fifth number?
 - (1) 108
- (2) 107
- (3) 110
- (4) Cannot be determined
- (5) None of these