Directions (1-5): Given below is the graph showing number of students participated (in hundreds) in NTSE (National Talent Search Exam) from 2 different schools from 2005-2010, the second graph shows the corresponding percentage of girls participated in this exam. Read the graphs carefully and answer the following questions:
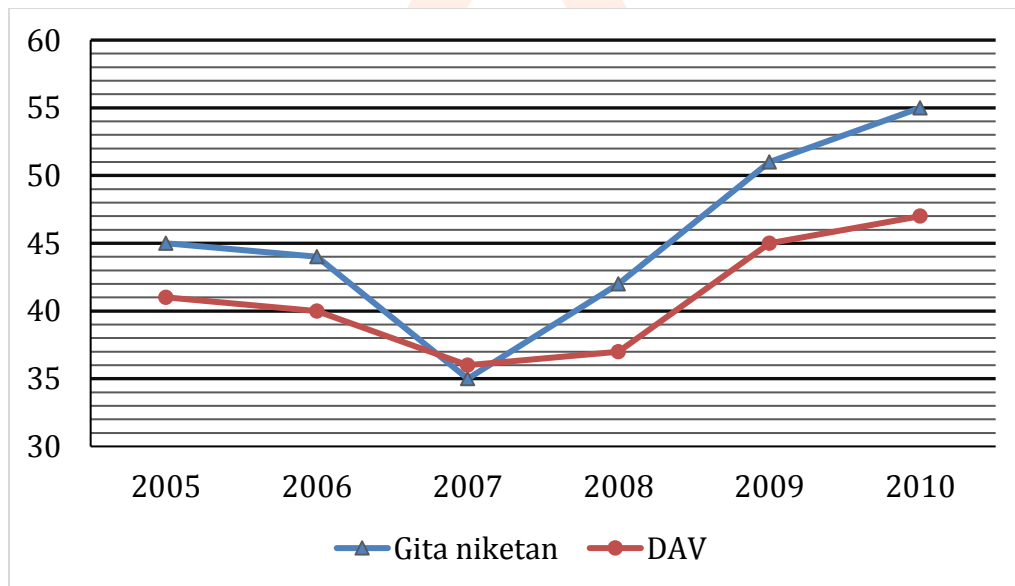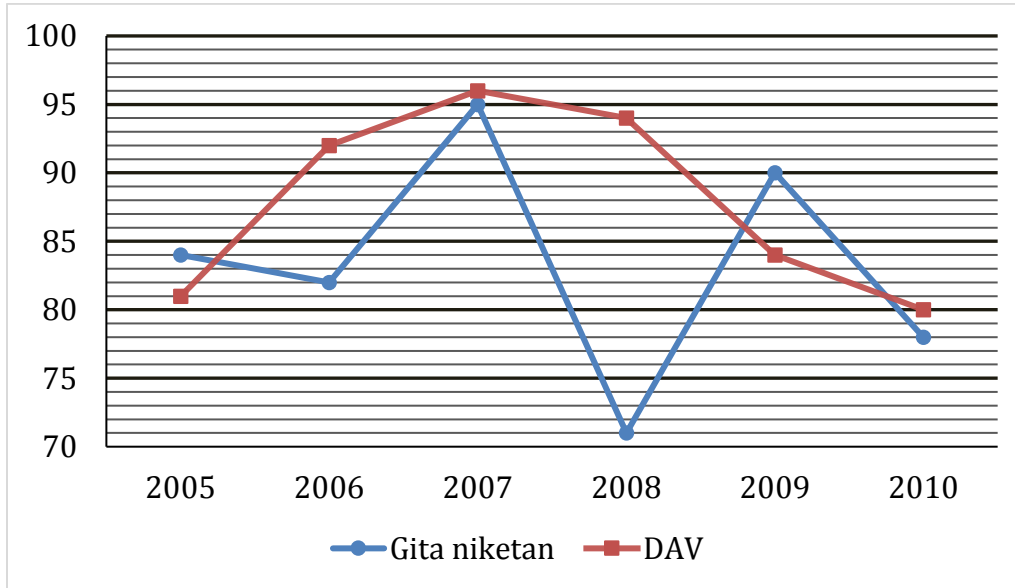
Q1. Girls participated from DAV in 2007 is approximately what percent less/more than the boys participated from Gita Niketan in 2009 and 2010 together?
(a) 56%
(b) 42%
(c) 50%
(d) 44%
(e) 58%

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Q2. Find the difference between average no. of students participated from the 2 Schools over the years.
(a) 4.5
(b) 45
(c) 415
(d) 465
(e) None of these

Q3. If no. of boys participated from Greenfield public school in 2009 is 10% less than the total no. of girls participated from DAV and Geeta Niketan in that year. The boys participated in 2009 from Greenfield was 45% of the total students participated from greenfield in that year, then find the no. of girls participated from greenfield school in 2009?
(a) 9428
(b) 8294
(c) 9211
(d) 9207
(e) 9084

Q4. Find the total number of boys participated from Gita Niketan in all years together
(a) 23225
(b) 27425
(c) 28525
(d) 29625
(e) 30425

Q5. The difference between total number of boys participated and total number of girls participated from Gita Niketan in all years together is what percent of the total students participated from Gita Niketan in all years?
(a) 9.7%
(b) 9.1%
(c) 9.6%
(d) 9.4%
(e) 9.3%

Q6. Raman took a loan of Rs. 15000 from Laxman. He was agreed that for the first three years rate of interest charged would be at 8% Simple Interest per annum and at 10% Compound Interest (compounded, annually) from the fourth year onwards. Ram did not pay anything until the end of the fifth year. How much would he repay if he clears the entire amount, only at the end of fifth year ? (in Rs.)
(a) Rs. 22506
(b) Rs. 22105
(c) Rs. 22900
(d) Rs. 22500
(e) Rs. 22450

Q7. The interest earned when Rs P is invested for four years in a scheme offering 9% p.a. simple interest is more than the interest earned when the same sum (Rs P) is invested for two years in another scheme offering 12% p.a. simple interest, by Rs 360. What is the value of P? (in Rs.)
(a) 2000
(b) 3500
(c) 2500
(d) 4000
(e) 3000

Q8. The speed of a boat in still water is 24kmph and the speed of the stream is 4kmph. The time taken by the boat to travel from A to B downstream is 36 minutes less than the time taken by the same boat to travel from B to C upstream. If the distance between A and B is 4 km more than the distance between B and C, what is the distance between A and B?
(a) 112 km
(b) 140 km
(c) 56 km
(d) 84 km
(e) 28 km

Q9. A & B together can complete a work in $14\frac{2}{5}$ days while B & C together can complete the same work in $10\frac{2}{7}$ days. A alone starts work and after 8 days B replaced him. B did the work for next 12 days and the remaining work is completed by C in next 5 days, then find time taken by A, B & C together to complete that work, if C work with 50% of his usual efficiency?
(a) $9\frac{2}{9}$ days
(b) $7\frac{2}{7}$ days
(c) $9\frac{2}{7}$ days
(d) $10\frac{2}{7}$ days
(e) None of these

Q10. A bag contains only twocolour balls i.e. blue &yellow. Ratio of number of blue balls to yellow balls is 3 : 4,twoyellow balls taken out from the bag, then the new ratio of blue balls to yellow balls become 5 : 6. Find the probability of that if two balls taken out from the bags and both balls will be of same colour?
(a) $\frac{57}{119}$
(b) $\frac{13}{29}$
(c) $\frac{59}{119}$
(d) $\frac{53}{117}$
(e) $\frac{12}{47}$

Directions (11-15): What should come in place of the question mark (?) In the following number series?

Q11. 50, 25, 37.5, 93.75, 328.125, ?
(a) 1276.5625
(b) 1376.5625
(c) 1476.5625
(d) 1496.5625
(e) 1576.5625

Q12. 5, 12.5, 54.5, 333.5, 2676.5, ?
(a) 26795.5
(b) 25775.5
(c) 36775.5
(d) 26775.5
(e) None of these

Q13. 76, 588, 2316, 6412, 14412, ?
(a) 28236
(b) 38236
(c) 46232
(d) 18438
(e) 28239

Q14. 119, 166, 221, 284, ?, 434
(a) 355
(b) 304
(c) 329
(d) 325
(e) 314

Q15. 547, 467, 477, 437, 447, ?
(a) 456
(b) 475
(c) 478
(d) 447
(e) 427

Directions (16-20): The following information is about the production of bikes by 3 different companies from Monday to Friday in a specific week. Read the information carefully and answer the following question:–

The total production by 3 companies on Monday was 540 out of which $33\frac{1}{3}\%$ bikes were produced by Hero. The number of bikes produced by Bajaj on Monday are less than the bikes produced by Hero on Monday by the same extent as the number of bikes produced by Honda on Monday is more than the bikes produced by Hero on Monday. The difference between bikes produced by Bajaj and Honda on Monday is 40. 150 bikes are produced by Hero on Tuesday, which is 100 less than the bikes produced by the same company on Wednesday. A total of 910 bikes were produced by Hero from Monday to Friday. The ratio between bikes produced by Hero on Thursday to bikes produced by the same company on Friday is 5 : 6. 220 bikes were produced by Bajaj on Tuesday, which is 80 less than the bikes produced by Honda on Wednesday. A total of 570 bikes were produced on Tuesday, which is 76% of the total bikes produced on Wednesday. The number of bikes produced by Honda on Thursday is $66\frac{2}{3}\%$ more than bikes produced by Hero on the same day. Total 580 bikes were produced on Thursday. The number of bikes produced by Honda on Friday is same as that on Monday. 140 bikes were produced by Bajaj on Friday.

Q16. Find the ratio between total bikes produced on Tuesday to that on Wednesday.
(a) 17 : 22
(b) 18 : 23
(c) 19 : 25
(d) 18 : 25
(e) 16 : 23

Q17. Bikes produced by Bajaj on Wednesday are what percent of total bikes produced by Bajaj from Monday to Friday?
(a) $22\frac{2}{9}\%$
(b) $18\frac{8}{9}\%$
(c) $24\frac{4}{9}\%$
(d) $23\frac{2}{9}\%$
(e) $25\frac{5}{9}\%$

Q18. Find the average number of bikes produced per day by Honda from Monday to Friday. (approximate)
(a) 250
(b) 220
(c) 270
(d) 240
(e) 230

Q19. On which pair of days, the number of bikes produced by Hero is the same ?
(a) Tuesday and Wednesday
(b) Wednesday and Thursday
(c) Tuesday and Thursday
(d) Monday and Wednesday
(e) Monday and Tuesday

Q20. If bikes produced by Honda on Saturday is 25% less than bikes produced by Bajaj on Wednesday and ratio of bikes produced by Hera and Honda on Saturday is 23 : 25, then find bikes produced by Bajaj on Saturday if total bikes produced on Saturday is 430?
(a) 156
(b) 184
(c) 142
(d) 136
(e) 166

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