



200 Questions of Quantitative Aptitude 200 Questions of Quantitative Aptitude

Directions (1-15): What approximate value should come in place of question mark (?) in the following questions?	Q7. 13.9×6.01÷ 41.89 = ? ÷ 5.9 (a) 15 (b) 12
Q1. $(\sqrt{625.021} + \sqrt{1599.78}) \div (560.31\% \text{ of } 30 - 250.23\% \text{ of } 62) = ?$	(c) 25
(a) 2	(d) 7
(b) 3	(e) 18
(c) 4	
(d) 5	Q8. 899÷ 44.8×4.05×69.8 = ?
(e) 6	(a) 6300
	(b) 5000
02 $? = 72911 \pm 2697 \times 8111 \pm 3591 \times 10818$	(c) 5600
(a) 2187	(d) 5800
(a) 2107	(e) 6000
(b) 0301 (c) 720	\mathbf{a}
(d) 242	Q9. $44.44 \div 4.4 \div 10.1 = (?)^2 \div 100$
(u) 245 (-) 01	(a) 10
(e) 81	(b) 14
	(c) 20
Q3. $?^{2} + (32.08)^{2} - \sqrt{144.44} \times (7.99)^{2} = 72.9\%$ of 401.1	
(a) 3	(e) 25
(b) 12	010 40-110-00 2 20 11 1
(c) 8	$Q10.4.9 \times 11.9 + 8.9 = ? - 3.9 - 11.1$
(d) 4	(a) 87
(e) 6	(b) 91 (c) 77
	(d) 74
Q4. 47.87% of 350 + 60.11% of 280 = 96.98% of 299.78 +	(a) 94
?% of 150	
(a) 50 (b) 40	Q11. 1999.92 ÷ 49.87 × 3.01 + 5.13 = $(?)^3$
(0) 40	(a) 5
	(b) 8
	(c) 9
(e) 45	(d) 2
	(e) 3
Q5. 2' = 128.18 × 511.77 ÷ 2047.59 ÷ 31.89 × 15.91	242
(a) -4	Q12. 59.9% of 319.94 + 9.99% of 1600.01 = $-177 + (?)^2$
(b) 6	(a) 26
(c) 8	(b) 33
(d) 5	(c) 23
(e) 4	(d) 20
	(e) 40
Q6. 59.77% of 880+79.9% of 591 = ?	010 1 101, 11 01, 101 01, 101 0
(a) 1000	U13. $1.101 + 11.01 + 101.01 \div 1.01 = ?$
(b) 950	(a) 109
(c) 1100	(D) 110 (c) 101
(d) 1050	
(e) 900	(a) 117



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200 Questions	
$\overline{014}$ $\sqrt{2024} \times \sqrt{9.21} - 35.01 = ? \times 10.1$	Q18. If in E INC got 15000 more valid votes than AAP and
(a) 10	BJP won the election by 15000 votes, then find the valid
(h) 12	votes received by BJP. (There are only three parties in E –
(c) 12	BJP, INC & AAP)
	(a) 40000
(u) 20 (a) 15	(b) 38000
(e) 15	(c) 45000
	(d) 35000
Q15. 1390.98 \div 26.04 \times 1.99 = ? - 16 ²	(e) 30000
(a) 324	
(b) 413	010 In B there are only two partice. BID 9 INC If BID act
(c) 400	Q19. In B there are only two parties – BJP & INC. II BJP got
(d) 343	60% of total votes in B and ratio of invalid votes received
	by BIP and INC is 2 : 1, then find valid votes received by

INC in B. (a) 24000

(b) 27000

(c) 22000

(d) 20000

(e) 25000

(a) 2000

(b) 3500

(c) 3400

(d) 2100

(e) 2700

400

350

300 250

200

150

100

50

٥

Q20. In C there are four parties – BJP, INC, SP & AAP. If

ratio of valid votes received by BJP, INC, SP & AAP in C is 4 : 2 : 3 : 3 and ratio of invalid votes received by BJP, INC, SP

& AAP in C is 1 : 3 : 4 : 2, then find difference between

Directions (21-25): Given bar graph shows the details of

number of students in a particular class of 3 different

2013

■A **■**B ■C

2014

2015

total votes received by INC & SP in C.

schools in 5 different years.

(e) 363

Directions (16-20): Study the bar chart given below and answer the following questions.

Bar chart shows the total votes (in '000) in 5 different cities (A, B, C, D & E) and percentage of valid votes out of total votes in these 5 cities.



Q16. In A, ratio of valid votes received by BJP, INC & SP is 11:3:5. If BJP win the election by 24000 votes, then find valid votes received by INC & SP together.

- (a) 28000
- (b) 40000
- (c) 45000
- (d) 32000
- (e) 21000

Q17. If in D there are only two parties-BJP & INC and BJP got 70% of the total valid votes, then find by how many votes BJP won the election in D.

(a) 18000

- (b) 25000
- (c) 10000
- (d) 16000
- (e) 6000

2

2011

2012





Q21. What is the difference between average number of students of school A across all the years and the average number of students of school B across all the years?

(a) 18

(b) 10

(c) 12

- (d) 14
- (e) 16

Q22. Find the respective ratio of the total number of students of school A in 2011 and 2012 together to the total number of students of school C in 2013 and 2014 together?

(a) 31:33

(b) 47:55

(c) 55:47

(d) 33:31

(e) 31:37

Q23. If in 2016, the total number of students in School A, School B and School C increases by 10%,20% and 15% respectively as compared to 2015, then find the total number of students in 2016 in all the schools together?

(a) 850

(b) 870

(c) 780

(d) 830

(e) 800

Q24. Total students of all the school together in 2013 is approximately what percentage more/less than the total students of school B in 2011 and 2015 together?

(a) 52%

(b) 59%

(c) 56%

(d) 63%

(e) 48%

Q25. Find the difference between the number of total students from all the schools in 2011 and 2013 together and the total number of students from all the schools in 2014 and 2015 together?

(a) 140

(b) 60

(c) 120

(d) 80

(e) 100

Directions (26-30): Given bar graph shows the percentage distribution of total number of students of each school (P, Q, R & S) who took admission in 3 different streams. Total students in P, Q, R & S are 700, 800, 400 & 900 respectively.



Q26. What is average number of students who have opted for MBBS in all the 4 colleges?

(a) 256

(b) 233

(c) 284 (d) 224

(e) 296

Q27. What is the ratio of the total number of student who have opted for both engg. and MBBS stream together in college Q to that of in same stream together in college R?



Q28. The number of student who have opted for MBBS in college P is what percent of the number of students who have opted for the engg. in college Q?

- (a) 87.5%
- (b) 50%
- (c) 75%
- (d) 100%
- (e) 62.5%

Q29. What is the ratio of the no. of students who have opted for engg. in college R to that of those who have opted for same stream in college P?

(a) 14:11
(b) 17:13
(c) 11:14
(d) 13:17
(e) None of these





Q30. Which of the combination represents the colleges with maximum number of students, who have opted for pharmacy and those who have opted for engg. respectively?

(a) P & R

- (b) Q & S
- (c) Q & R
- (d) R & S
- (e) P & Q

Directions (31-35): following line graph shows the data of 3 different types of cars sold in 5 different cities.



Q31. Number of Honda city car sold in Ahmedabad is what percent of total Innova car sold in Surat? (a) 50%

- (b) $66\frac{2}{3}\%$ (c) 70 % (d) $57\frac{1}{7}\%$ (c) 80 %
- (e) 80 %



and Mohali together to the total of Innova car sold in Kolkata and Ahmedabad together? (a) 41:35 (b) 46:53 (c) 26:35 (d) 35:41 (e) 35:54 **Q33.** Find the total number of cars sold in Kolkata? (a) 1140 (b) 1170 (c) 1250 (d) 1300 (e) 1080

Q32. Find the respective ratio of Creta car sold in Delhi

Q34. Find the difference between number of Honda city cars sold in delhi and number of creta cars sold in surat?

- (a) 70
- (b) 110
- (c) 80 (d) 100
- (e) 90

Q35. Find the average number of Honda city car sold in all the cities?



Directions (36-40): Following Line Graph shows the marks scored by Student A and Student B in high school in different Subjects.(Maximum Marks is 100 for each subject). Study the data carefully and answer the following questions.







-2016

2017

-2018

Q36. What is difference between average marks scored by А Student A and Student B in all subjects? 4000 (a) 1.75 3000 (b) 1.45 2000 (c) 1.50 (d) 1.25 1000 (e) 1 n Q37. What is Ratio of marks obtained by Student A in Maths and Computer together to the marks obtained by Student B in Science and English together? (a) 7:5 (b) 7:8 (c) 8:7 (d) 8:5 **Note** - Buses manufactured by a company in any year = (e) 5:7 (Sold + unsold) buses of that company in that year. **Q38.** What is the overall percentage marks scored by **Q41.** If company – B sold 80%, 90% and 80% buses Student B? manufactured by it in 2016, 2017 & 2018 respectively, (a) 68.75 % then find average number of unsold buses of company – B (b) 67.5 % in 2016, 2017 & 2018. (c) 68% (a) 400(d) 67% (b) 900 (e) 69.25% (c) 500 Q39. Marks Scored by Student A in Math is what percent (d)200 of marks scored by Student B in Science and English (e) 100 together? (a) 40% **Q42.** Buses manufactured by company – A in 2016 & (b) 60% 2018 together are what percent more or less than buses (c) 50% manufactured by company – D in 2017 & 2018 together? (d) 70% (a) 50% (e) 80% (b) 90% (c) 70% **Q40.** If passing marks for each subject is 40% of 120, then (d) 60% what is the difference between passing marks and marks (e) 80% scored by Student B in Computer? (a) 30 Q43. If buses sold by company – B and company – E in (b) 32 2016 are 75% and 80% respectively, then find ratio of (c) 36 buses sold by company - B & E together in 2016 to unsold (d) 40 buses of company – B & E together in 2016. (e) 45 (a) 11 : 5 (b) 5:1 Directions (41-45): Study the radar chart given below and answer the following questions. (c) 8:5 Radar chart shows the number of buses manufactured by (d) 7:2 5 different companies (A, B, C, D& E) in 2016, 2017 & (e) None of the above.

2018.

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200 Questions of Qu	antitative Apti	tude	200	2 07	100	
Q44. Buses manufactured in 2018 by all these 5	Q50. 10, 2	0, 60,	300,	?, Z:	3100	
companies together are approximately what percent of	(a) 1650					
buses manufactured in 2016 by all these 5 companies	(b) 1500					
together?	(c) 1800					
(a) 104%	(d) 2100					
(b) 108%	(e) 2400					
(C) 102% (d) 1100/		10		=0		
(a) 115%	Q51.3,8,	18,	33,	53,	?	
(e) 115%	(a) /2					
045 Average number of buses manufactured by company	(b) 80					
- B C & D in 2017 are how much more or less than buses	(c) 76					
- D, C & D in 2017 are now inucli more of less than buses manufactured by company $-$ D & F together in 2016?	(d) 78					
(a) 1500	(e) /3					
(b) 2500		25	216	2	F10	
(c) 2000	Q52. 9, 64,	25,	216,	<i>?</i> ,	512	
(d)1000	(a) 49					
(e) 500	(b) 343					
	(c) 81					
Directions (46-50): Find the missing term in the	(a) 100					
following number series questions.	(e) 121					
U I	052 12	26	00	164	220 2	,
Q46. 6, 7, 16, 51, 208, ?	Q_{53} , 12,	30,	80,	104,	328, 4	
(a) 970	(a) 648					
(b) 845	(D) 664					
(c) 1085	(C) 660 (d) 656					
(d) 985	(u) 050					
(e) 1045	(e) 052					
	054 15	22	20	26	41 2	,
Q47. 2000, ?, 2164, 2308, 2504, 2760	(3) 48	23,	50,	50,	41, :	
(a) 2049	(a) ± 0					
(b) 2036	(0) 32					
(c) 2064	(d) 45					
(d) 2100	(u) 45 (e) 51					
(e) 2081	(0) 51					
	055 7 14	28	2	112	224	
Q48. 800, 770, 728, 672, ?, 510,	(a) 56	20,	•,	112,		
(a) 616	(b) 64					
(b) 600	(c) 58					
(c) 580 (d) 624	(d) 62					
(d) 624	(e) 60					
(e) 560						
049 , 500, 548, 620, 7 836 980	Q56. 250,	375,	591,	?,	1446,	2175
(a) 716	(a) 954					
(b) 736	(b) 934					
(c) 756	(c) 914					
(d) 696	(d) 894					
(e) 746	(e) 974					

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Q57. 30, 90, 360, 1800, 10800, ?	Q63. 65% of 180 + ?% of 210 = 80% of 225
(a) 54000 (b) 72200	(a) 45
(b) 73200 (c) 73900	(0) 50
(c) /2800 (d) 75600	
(a) 64800	(e) 25
(8) 04000	
058 39600 6600 ? 330 110 55	$\sqrt{1500 \pm 2 \pm 175 \times 8 = 5\%}$ of 20 = 42
(a) 1320	Q_{64} , $(1300 + 17.5 \times 6^{-570} \text{ of } 20 = 42)$
(b) 1650	(a) 145 (b) 115
(c) 1100	(b) 115 (c) 120
(d) 1160	(d) 125
(e) 1280	(e) 125
Q59. 200, ?, 236, 284, 380, 572	Q65. $\frac{13}{10}$ of $\frac{8}{10}$ of 153 = ?
(a) 228	(a) 8
(b) 208	(b) 12
(c) 224	(c) 7
(d) 220	(d) 6
(e) 212	(e) 4
	5 1 1 5 1
Q60. 8000, 7100, 6475, 6075, ?, 5750	Q66. $? + \frac{3}{2} + 1\frac{4}{4} = 1\frac{4}{8} + 2\frac{3}{2} + 7\frac{4}{4}$
(a) 5975	$\left(2\right)\frac{71}{8}$
(b) 5850	(a) 8
(c) 5675	(b) $\frac{73}{8}$
(d) 5875	65
(e) 5775	(c) 8
	63
Directions (61-70): What should come in place of	(d) 4
question mark (?) in the following questions?	(e) $7\frac{1}{8}$
Q61. 1528 + 525 ÷ 25 – 840 = 510 + ?	Q67. $\frac{1725}{1} + \frac{3025}{1} \div \frac{312}{1} = (?)^2$
(a) 199	(a) 17 25 121 1248 (a)
(b) 299 (c) 150	(b) 23
(c) 159 (d) 100	(c) 15
(d) 189 (a) 165	(d) 13
(8) 105	(e) 11
062 $\sqrt{1225} \div 7 + 18.5 \times 16 - 18\%$ of 10800 = 2 - 1800	
(a) 259	Q68. $(180 \times 1/0) \div 16 \div ? = 153 \times 6 \div 612$
(b) 169	(a) 1.75
(c) 157	(D) 1.20 (a) 1.25
(d) 129	(c) 1.25 (d) 1.45
(e) 141	(a) 1.73 (e) 1.80
	1

200 Questions of Quartitative ApriludeQ69. $(24)^2 - (12)^2 - (10)^3 + (?)^2 = 207 \times 3$ (a) Rs. 95(b) Rs. 228(c) Rs. 228(c) 13(c) Rs. 238(d) 23.5(c) Rs. 238(e) 17(f) 25 + 215 - 720) + (1620 + 1200 - 69.5 \times 40) =7(a) 23.5(c) Rs. 218(c) 13(c) 21.5(c) 14.7(c) 19.5(c) 17.5(c) 19.5(c) 17.6(c) 96 kg(c) 17.6(c) 86 kg(d) 7.7.6(c) 25%(d) 7.7.6(c) 25%(d) 7.7.6(c) 25%(d) 7.7.6(c) 25%(d) 7.7.6(c) 25%(d) 7.6(c) 25%(d) 7.7.6(c) 22%(c) 2140(d) 8.2000(d) 7.6(d) 22%(e) 4.13(f) Rumber of boys is r52.0(a) 126(b) 147(c) 2240(c) 22%(c) 2240(c) 22%(c) 2240(c) 22%(c) 2240(c) 22%(c) 2240(c) 136(c) 122(c) 136(c) 136(c) 136(c) 136(c) 136(c) 136(c) 136(c) 136(c) 137(c) 138(c) 139(c) 147(c) 136(c) 147(c) 147(c	Adda 247 BANKEPS	Adda 247
(14) $(24)^2 - (12)^2 - (12)^2 + (7)^2 = 207 \times 3$ (1a) $(8, 33)$ (a) 19(b) (37) (c) (37) (c) 13(c) (32) (c) $(8, 285)$ (d) 23(c) $(8, 236)$ (c) $(8, 30)$ (e) 17(f) $(235 + 215 - 720) + (1620 + 1200 - 69.5 \times 40) = 7$ (a) 23.5(c) $(13, 30)$ (b) 13(c) (221.5) (c) 19.5(c) $(15, 36)$ (f) 17.5(c) $(15, 36)$ (g) 17.5(c) $(15, 36)$ (g) 17.5(c) $(16, 36)$ (g) 17.5(c) $(16, 36)$ (g) 17.6(c) $(16, 36)$ (g) 17.7(c) $(16, 36)$ (g) 6.7(g) $(16, 36)$ (g) 7.7.4(g) $(16, 36)$ (g) 4.7.4(g) $(17, 46)$ (g) 4.7.4(g) $(17, 26)$ (g) 7.7.4(g) $(17, 26)$ (g) 7.7.4(g) $(22, 36)$ (g) 17.6(g) $(22, 36)$ (g) 17.6(g) $(22, 36)$ (g) 12.6(g) $(23, 36)$	$200 \text{ Questions of Questio$	iantitative Aptitude
(a) 19(b) 37(b) 37(c) 85(c) 13(c) 8z(d) 23(c) 8z(e) 17(c) 8z Q70. $(1285 + 215 - 720) + (1620 + 1200 - 69.5 \times 40) = 7$ (h) 13(c) 17.5(c) 19.5(c) 19.5(c) 19.5(c) 8z Q71. In an alloy A, Aluminum and Nickel are present in the ratio 4 : 3 and in alloy B, the same element are in the ratio 3 : 5.1. fithese two alloys be mixed to form a new alloy in which same elements are in the ratio 1 : 1, then find the 	Q69. $(24)^{-} - (12)^{-} - (10)^{-} + (7)^{-} = 207 \times 3$	(a) Do 220
	(a) 19	(J) RS. 220
	(b) 37	(c) Rs. 285
(d) 23 (e) 17 (f) 13 (g) 125 (g) 13 (g) 23.5 (g) 23.5 (g) 23.5 (g) 23.5 (g) 23.5 (g) 23.5 (g) 23.5 (g) 25. Average weight of A, B and C is 93 kg. If another man D joins the group whose weight is 81 kg then new average of the four people will be equal to: - (a) 65 kg (b) 7.6 (c) 86 kg (d) 90 kg (e) 96 kg 76. An article when sold at $4/5$ of its original selling price, gives a profit of 20%. Find the profit % when the same article is sold at its actual selling price. (a) 15 % (b) 20 % (c) 25% (d) 7: 6 (e) 4: 3 77. The average wt. of boys in school is 60kg while average wt. of girls is 55 kg. The average wt of both boys and girls is 58kg. Find the number girls in school if number of boys is 720. (a) 4400 (b) 720 (c) 240 (d) 260 (g) 240 (d) 260 79. If 21 is added in a number, the result become 116%% of itself. Find the new number? (a) 126 (b) 127 76. Karan purchased an article marked up by 50% at a discount of 20% but later he found that the article was having a defect so he decided to return it but the shopkeeper returned him only 90% of what he had paid. What is profit/loss (in %)of the shopkeeper in the whole transaction? (a) 8 (b) 10 (c) 12 (d) 15 (c) Nne of these	(c) 13	(d) Ks. 380
 (e) 17 (f) 17 (g) 21.5 (g) 17.5 (g) 18.5 (g) 19.5 (g) 19.5 (g) 19.5 (g) 19.5 (g) 19.5 (g) 19.5 (h) a an alloy A, Aluminum and Nickel are present in the ratio 4: 3 and in alloy be mixed to form a new alloy? (g) 6.7 (h) 7.4 (c) 2.5% (d) 7.6 (e) 4: 3 (f) 7.4 (g) 2.7 The average wt. of boys in school is 60kg while average wt. of girls is 55 kg. The average wt of both boys and girls is 58kg. Find the number girls in school if an girls is 58kg. Find the number girls in school if 10.70 (g) 240 (g) 240 (g) 240 (g) 240 (g) 2500 (g) 240 (h) 720 (c) 240 (d) 360 (e) 215 (f) 174 (g) 125 (g) 125 (g) 125 (g) 126 (g) 126 (g) 136 (g) 126 (g) 136 (h) 10 (g) 147 (g) 136 (h) 10 (g) 147 (g) 147 (g) 147 (g) 147 (g) 146 (h) 10 (g) 147 (g) 146 (h) 10 (h) 15 (g) 186 (h) 10 (h) 15 (g) None of these 	(d) 23	(e) Rs. 114
Q70. $(1285 + 215 - 720) + (1620 + 1200 - 69.5 \times 40) = 7$ (a) (23.5Q75. Average weight of A B and C is 93 kg. If another man D joins the group whose weight is 81 kg then new average of the four people will be equal to: - (a) 65 kg (b) 71.4 (c) 97.4 (c) 4 : 7 (c) 4 : 3Q76. An article when sold at 4/5 of its original selling price. (a) 15 % (b) 20 % (c) 25% (c) 25% (d) 22 % (c) 8 Sud at its actual selling price. (a) 15 % (b) 20 % (c) 25% (c) 25% (c) 25% (c) 25% (c) 25% (c) 25% (c) 25% (c) 25% (c) 25% (c) 26300 (c) 25200 (c)	(e) 17	
Q70. (1285 + 215 - 720) + (1620 + 1200 - 69.5 × 40) = ?(a) 23.5(b) 13(c) 21.5(d) 17.5(e) 19.5Q71. In an alloy A, Aluminum and Nickel are present in the ratio 4 : 3 and in alloy B, the same element are in the ratio 3 : 5. If these two alloys be mixed to form a new alloy rith cratic of alloy A and alloy B in the new alloy ?(a) 6 : 7(b) 7 : 4(c) 4 : 7(c) 7 : 6(c) 4 : 7(d) 7 : 6(e) 4 : 3Q72. The average wt. of boys in school is 60kg while aurage wt of girls is 55 kg. The average wt of both boys in number of boys is 720.(a) 480Q73. If 21 is added in a number, the result becomes 116%% of itself. Find the new number? (a) 126(a) 126(b) 127(c) 230(c) 240(d) 360(e) 125Q74. The amount invested by P and R is 5 : 7. If the profit earned by Q.Q74. The amount invested by P and R is 5 : 7. If the profit earned by Q.Q74. The amount invested by P and R is 5 : 7. If the profit earned by R P at the end of year is Rs. 76 less than that earned by R P at the end of year is Rs. 76 less than that earned by R at the end of year is Rs. 76 less than that earned by R P at the end of year is Rs. 76 less than that earned by R P at the end of year is Rs. 76 less than that earned by R		Q75. Average weight of A, B and C is 93 kg If another
(a) 23.5average of the four people will be equal to: -(b) 13(a) 65 kg(c) 21.5(b) 67 kg(c) 17.5(c) 86 kg(d) 17.5(c) 96 kg Q71. In an alloy A, Aluminum and Nickel are present in the ratio 4 : 3 and in alloy B, the same element are in the ratio 3 : 51 fithes two alloys be mixed to form a new alloy? (a) 6 : 7(a) 6 : 7(c) 6 : 7(b) 7 : 4(c) 25%(c) 4 : 7(d) 7 : 6(e) 4 : 3(e) None of these Q72. The average wt. of boys in school is 60kg while and girls is 58kg. Find the number girls in school if number of boys is 720. Q77. An amount of Rs. 20000 when invested at R% simple interest for 2 years becomes Rs. 24000. What will it become in 3 years if invested at (R+2)%? (in Rs.) Q73. If 21 is added in a number, the result becomes (a) 126 Q78. Karan purchased an article marked up by 50% at a discount of 20% but later he found that the article was having a defect so he decided to return it but the shopkeeper returned him only 90% of what he had paid. Q74. The amount invested by P and R is 5 : 7. If the profit earned by P at the end of year is Rs. 76 less than that earned by R at the end of year is Rs. 76 less than that earned by R at the end of year is Rs. 76 less than that earned by R. Q74. The amount invested by P and R is 5 : 1. If the profit earned by P at the end of year is Rs. 76 less than that earned by R. Q75. The amount invested by P and R is 5 : 1. If the profit earned by P at the end of year is Rs. 76 less than that earned by R. Q75. The amount invested by P and R is 5 : 1. If the profit earned by P at the end of year is Rs. 76 less than that earned by R. <td>Q70. (1285 + 215 - 720) ÷ (1620 + 1200 - 69.5 × 40) =?</td> <td>man D joins the group whose weight is 81 kg then new</td>	Q70. (1285 + 215 - 720) ÷ (1620 + 1200 - 69.5 × 40) =?	man D joins the group whose weight is 81 kg then new
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number of boys is 720.(a) 27200(b) 720(c) 26300(c) 240(d) 360(e) 600(d) 27400Q73. If 21 is added in a number, the result becomes16%3% of itself. Find the new number?(a) 126(b) 147(c) 130(d) 136(e) 125Q74. The amount invested by P and Q is in the ratio 2 : 3and that invested by P and R is 5 : 7. If the profit earned byQ74. The amount invested by P and R is 5 : 7. If the profit earned byP at the end of year is Rs. 76 less than that earned by R.Find the profit earned by Q.	and girls is 58kg. Find the number girls in school if	become in 3 years if invested at (R+2)%? (in Rs.)
 (a) 480 (b) 720 (c) 240 (d) 360 (e) 600 Q73. If 21 is added in a number, the result becomes 116%3% of itself. Find the new number? (a) 126 (b) 147 (c) 130 (d) 136 (e) 125 Q74. The amount invested by P and Q is in the ratio 2 : 3 and that invested by P and Q is in the ratio 2 : 3 and that invested by P and R is 5 : 7. If the profit earned by P. at the end of year is Rs. 76 less than that earned by R. Find the profit earned by Q. (b) 26300 (c) 25200 (d) 27400 (e) 28100 Q78. Karan purchased an article marked up by 50% at a discount of 20% but later he found that the article was having a defect so he decided to return it but the shopkeeper returned him only 90% of what he had paid. What is profit/loss (in %)of the shopkeeper in the whole transaction? (a) 8 (b) 10 (c) 12 (d) 15 (e) None of these 	number of boys is 720 .	(a) 27200
 (c) 220 (d) 360 (e) 600 Q73. If 21 is added in a number, the result becomes 116%% of itself. Find the new number? (a) 126 (b) 147 (c) 130 (d) 136 (e) 125 Q74. The amount invested by P and Q is in the ratio 2 : 3 and that invested by P and R is 5 : 7. If the profit earned by P at the end of year is Rs. 76 less than that earned by R. Find the profit earned by Q. (c) 25200 (d) 27400 (e) 28100 Q78. Karan purchased an article marked up by 50% at a discount of 20% but later he found that the article was having a defect so he decided to return it but the shopkeeper returned him only 90% of what he had paid. What is profit/loss (in %)of the shopkeeper in the whole transaction? (a) 8 (b) 10 (c) 12 (d) 15 (e) None of these 	(a) 480 (b) 720	(b) 26300
(d) 240(d) 27400(d) 360(e) 600Q73. If 21 is added in a number, the result becomes116%% of itself. Find the new number?(a) 126(b) 147(c) 130(d) 136(e) 125Q74. The amount invested by P and Q is in the ratio 2 : 3and that invested by P and Q is in the ratio 2 : 3and that invested by P and R is 5 : 7. If the profit earned byP at the end of year is Rs. 76 less than that earned by R.Find the profit earned by Q.		(c) 25200
 (e) 300 (e) 600 Q73. If 21 is added in a number, the result becomes 116% of itself. Find the new number? (a) 126 (b) 147 (c) 130 (d) 136 (e) 125 Q74. The amount invested by P and Q is in the ratio 2 : 3 and that invested by P and R is 5 : 7. If the profit earned by P at the end of year is Rs. 76 less than that earned by R. Find the profit earned by Q. (e) 28100 Q78. Karan purchased an article marked up by 50% at a discount of 20% but later he found that the article was having a defect so he decided to return it but the shopkeeper returned him only 90% of what he had paid. What is profit/loss (in %)of the shopkeeper in the whole transaction? (a) 8 (b) 10 (c) 12 (d) 15 (e) None of these 	(d) 240	(d) 27400
Q73. If 21 is added in a number, the result becomes 116%3% of itself. Find the new number? (a) 126 (b) 147 	(d) 500 (a) 600	(e) 28100
Q73. If 21 is added in a number, the result becomes 116%% of itself. Find the new number? (a) 126 (b) 147 	(8) 600	
 (a) 126 (b) 147 (c) 130 (d) 136 (e) 125 (d) 136 (e) 125 (a) the maximum end of year is Rs. 76 less than that earned by R. Find the profit earned by Q. (c) 130 (c) 12 (c) 15 (c) 16 (c) 17 (c) 18 (c) 19 (c) 12 <li< td=""><td>073 If 21 is added in a number the result becomes</td><td>${f Q78}$. Karan purchased an article marked up by 50% at a</td></li<>	073 If 21 is added in a number the result becomes	${f Q78}$. Karan purchased an article marked up by 50% at a
 (a) 126 (b) 147 (c) 130 (d) 136 (e) 125 (a) 8 (b) 10 (c) 12 (c) 130 (c) 136 (e) 125 (a) 8 (b) 10 (c) 12 (d) 15 (e) None of these (e) None of these 	273 . If 21 is added in a number, the result becomes 116^{2606} of itself Find the new number?	discount of 20% but later he found that the article was
(a) 120shopkeeper returned him only 90% of what he had paid.(b) 147shopkeeper returned him only 90% of what he had paid.(c) 130What is profit/loss (in %)of the shopkeeper in the whole(d) 136transaction?(e) 125(a) 8(b) 10(b) 10Q74. The amount invested by P and Q is in the ratio 2 : 3(c) 12and that invested by P and R is 5 : 7. If the profit earned by(d) 15P at the end of year is Rs. 76 less than that earned by R.(e) None of theseFind the profit earned by Q.e	(a) 126	having a defect so he decided to return it but the
(c) 130What is profit/loss (in %) of the shopkeeper in the whole(d) 136transaction?(e) 125(a) 8(b) 10(b) 10Q74. The amount invested by P and Q is in the ratio 2 : 3(c) 12and that invested by P and R is 5 : 7. If the profit earned by(d) 15P at the end of year is Rs. 76 less than that earned by R.(e) None of theseFind the profit earned by Q.(e) None of these	(b) 147	shopkeeper returned him only 90% of what he had paid.
(d) 136transaction?(e) 125(a) 8(b) 10(b) 10Q74. The amount invested by P and Q is in the ratio 2 : 3(c) 12and that invested by P and R is 5 : 7. If the profit earned by(d) 15P at the end of year is Rs. 76 less than that earned by R.(e) None of theseFind the profit earned by Q.(f) 10	(c) 130	What is profit/loss (in %)of the shopkeeper in the whole
 (e) 125 (a) 8 (b) 10 (c) 12 (c) 12 (c) 12 (c) 12 (d) 15 (e) None of these (e) None of these 	(d) 136	transaction?
 (b) 10 (c) 12 (c) 12 (c) 12 (d) 15 (e) None of these (e) None of these 	(e) 125	(a) 8
Q74. The amount invested by P and Q is in the ratio 2 : 3(c) 12and that invested by P and R is 5 : 7. If the profit earned by(d) 15P at the end of year is Rs. 76 less than that earned by R.(e) None of theseFind the profit earned by Q.(f) None of these	(-)	(b) 10
and that invested by P and R is 5 : 7. If the profit earned by P at the end of year is Rs. 76 less than that earned by R.(d) 15 (e) None of theseFind the profit earned by Q.(e) None of these	Q74. The amount invested by P and O is in the ratio 2 : 3	(c) 12
P at the end of year is Rs. 76 less than that earned by R. (e) None of these Find the profit earned by Q.	and that invested by P and R is 5 : 7. If the profit earned by	(d) 15
Find the profit earned by Q.	P at the end of year is Rs. 76 less than that earned by R.	(e) None of these
	Find the profit earned by Q.	



200.0 60



200 Questions of Qu	antitative Aptitude
Q79. A sum of Rs. x was invested at 10% simple interest	Q84. The interest earned on an amount after 2 yrs at 10
for 3 years. If the same sum was invested at 4% more for	% per annum compounded yearly is Rs 672. Find the
same period, then it would have fetched Rs. 120 more.	interest earned on same amount after 4 yr at 14 % per
Find the value of 5x. (in Rs.)	annum at simple interest ?
(a) 5000	(a) Rs 1792
(b) 4800	(h) Rs 1864
(c) 3600	(c) Rs 1912
(d) 5500	(d) $P_{0} = 1754$
(e) 4000	(u) RS 1754
	(e) Rs 1720
Q80. A sum of Rs. P was invested at 10% for 2 years at	
simple interest. If the same sum was invested at 20% for	Q85. If the shopkeeper marked the price of an item 60%
'x' years, it would have fetched Rs. 200 more. Find 'x' if Px	above the cost price and then gives two successive
= 5000. (value of x is given in months)	discount of 10% and 15% respectively, then find the
(a) 12	profit percentage of the shopkeeper on selling the item?
(b) 18	(a) 25.4%
(c) 15	(h) 22 4%
(d) Cannot be determined	(c) 20%
(e) None of these	
	(u) 28.5%
081 A sum of Rs 1400 becomes Rs 2408 in 8 yrs at	(e) 32%
simple interest then find the rate of interest for last 4	
vrs if the interest rate for 1 st 4 vrs is 12% per annum?	Q86. Johny calculates his profit at cost price while Jini at
(a) 8%	selling price. If cost price is same for all and everyone
(a) 0 %	calculate their profit as 10%. Find ratio of selling price.
(c) 6%	(a) 100:111
(d) 4 %	(b) 10:11
(a) None of these	(c) 10:101
	(d) 99.100
092 Cost price of 2 hags is in ratio $4E$ and these hags are	(a) Cannot he determined
cold at 1004 profit & 2004 profit reconcertively. Find everall	(e) Cannot be determined
sold at 10% profit & 20% profit respectively. Find over an	
profit percentage in entire transaction.	Q87. An amount doubles in 5 years at simple interest. In
$(3) \frac{15-\%}{9}$	what time will it become 12 times of itself at same rate?
5	(in years)
(h) $\frac{12}{9}$	(a) 30
105	(b) 50
$\binom{18-\%}{9}$	(c) 55
() 4 4 ⁵ 0 ((d) 36
(d) $\frac{14-\%}{9}$	(e) None of these
Cannot be determined	
(e) calmot be determined	OOD Aslassh sells an article at a mar (t of 100/ U. d ha
000 D 40000 L D 45000 L 40	Q88. Aakash selis an article at a profit of 10%.Had he
Q83. Rs. 12000 becomes Rs. 15000 in 18 months at a	bought it for 5% less and sold it for 120 rs more then he
certain rate of interest at simple interest. Find amount if	would have gained 20% profit. What is the cost price of
Rs. 5000 invested at same rate for 30 months at simple	the article ?
interest.	(a)Rs 2500
(a) Rs. 7883.33	(b) Rs 4000
(b) Rs. 7083.33	(c) Rs 3000
(c) Rs. 7279.80	(d) Bs 3500
(d) Rs. 7173.33	(a) Do 2000
(e) None of these	(e) KS 2000



Q95.

(a) 63

(b) 73

(c) 85

(d) 57

(e) 67

1656,

549,

180,

?,

16



Q89. An amount of 4000 rs is invested at 20% per annum for 2 yrs at compound interest compounding half-yearly, then find the total interest amount received after 2 yrs? (a) Rs 1856.4

- (b) Rs 1812.4
- (c) Rs 1882.4
- (d) Rs 1912.4
- (e) None of these

Q90. Anu bought a purse at a discount of 20% which was marked at 30% higher than cost price. A customer gets 10% extra discount on purchase of more than two purse. If Anu purchased 3 such purses, find profit or loss percent of shopkeeper.

- (a) 4% loss
- (b) 4% profit
- (c) 6.4% profit
- (d) 6.4% loss
- (e) None of these

Directions (91-95): What will come in the place of the question mark (?) in the following number series?

Q91. 5, 7, 25, 131, ?, 8335 (a) 845 (b) 940 (c) 965 (d) 925 (e) 825	and the rat is 3 : 2. The total cost o (a) Rs. 530 (b) Rs. 630 (c) Rs. 670 (d) Rs. 750
Q92. 81, 86, 94, 111, 135, ?	(e) Rs. 720
(a) 172	Q97. If tot
(b) 176	Rs. 450. Th
(c) 192	or less than
(d) 182	(a) 72%
(e) 186	(b) 86%
Q93. 61, 32, 55, 36, 53, ? (a) 50	(c) 82% (d) 78% (e) 92% Q98. One k 450. If cost
Q94. 5, ?, 11.5, 35, 164, 1360	rice and su
(a) 7.5	(a) Rs. 300
(b) 11	(b) Rs. 350
(c) 8.5	(c) Rs. 200
(d) 9	(d) Rs. 250
(e) 5.5	(e) Rs. 450

Directions (96-101): Line graph shows the quantity of 5 different products purchased by a person.



Q96. If sum of per kg cost of sugar and that of salt is Rs.90 ratio between per kg cost of sugar and that of salt Then, find the difference of total cost of sugar and t of salt ?

a) Rs. 530	
b) Rs. 630	
c) Rs. 670	
d) Rs. 750	
e) Rs. 720	

otal cost of Tea is Rs. 5000 and that of wheat is Then cost per kg of wheat is what percent more an cost per kg of Tea?

e kg of rice and one kg of sugar is purchased in Rs ost per kg of rice decreases by 33 1/3% & cost per gar increases by 33 1/3% then total cost per kg of sugar is Rs. 500. Then find cost per kg of sugar? 00 50 00 50





· · · · ·	1
Q99. If cost per kg of Tea & per kg of Rice is Rs. 220 & Rs.	Q103. Arun sells his watch at a profit of 33 $\frac{1}{3}$ % & his
50 respectively then find the ratio of total cost of tea to	purse at a loss of 16 $\frac{2}{3}$ % & on whole he gains Rs. 50. And
total cost of rice ?	if he sells his watch at a loss of 16 $\frac{2}{3}$ % & purse at profit of
(a) 53 : 15	33 1⁄3% then there will be no profit no loss. Find cost price
(b) 44 : 17	of the watch ?
(c) 41 : 17	(a) Rs. 300
(d) 47 : 15	(b) Rs. 100
(e) 44 : 15	(c) Rs. 250
	(d) Rs. 200

Q100. Total quantity of sugar and salt purchased together is what percent more/less than the total quantity of Tea & wheat purchased together?

(a) $48\frac{2}{3}\%$ (b) $37\frac{1}{3}\%$ (c) $66\frac{2}{3}\%$ (d) $33\frac{1}{3}\%$ (e) $42\frac{2}{3}\%$

Q101. If cost per kg of sugar, salt & rice is Rs. 10, Rs. 30 & Rs. 20 respectively then find the sum of difference of total cost of sugar and that of salt and difference of total cost of sugar and that of rice?

(a) Rs. 500

(b) Rs. 475

(c) Rs. 400

(d) Rs. 450

(e) Rs. 435

Q102. A train crosses a tunnel which is half of its length with a speed of 144 km/hr. in $\frac{1}{2}$ min, then find the time in which it will cross another train which is double of its length and standing on platform in opposite direction with 60% of its initial speed?

- (a) 120 sec.
- (b) 90 sec.
- (c) 150 sec.
- (d) 100 sec.
- (e) 180 sec.

(e) Rs. 150

Q104. A boat can cover an equal distance in upstream and in downstream in 6 hours. If speed of boat in still water is 200% more than the speed of stream then find the time taken to cover the same distance in upstream.

- (a) 5 hours
- (b) 3 hours
- (c) 4.5 hours (d) 3.5 hours
- (e) 4 hours

Q105. Prabhat invested Rs. 15600 on SI at rate of R% p.a. for 3 years & the interest obtained is Rs. 7020. If he invested the same amount at rate of (R+5)% p.a. for two years on CI then find the interest obtained by Prabhat?

(a) Rs. 6864 (b) Rs. 6250 (c) Rs. 6748 (d) Rs. 6468 (e) Rs. 6648







Directions (106-110): Given table shows the data of students of a class related to results of Half-yearly and Annual examination. Study the data carefully and answer the questions.

	Section A	Section B	Section C
Students who have failed in both	10	15	20
Students who have passed Half-yearly	30	30	35
Students who have passed Annual	40	25	30
Students who have passed in both	20	20	25

Q106. How many students are there in Section B of class?

(a) 50

(b) 60

(c) 90

(d) 100

(e) 110

Q107. Students passed in both exams in all sections are what percent more/less than students failed in both exams in all sections?



Q108. what is average of students who passed in only one examination in all sections together?

(a) 39.67	
(b) 40.67	
(c) 41.67	
(d) 42.67	
(e) 43.67	

Q109. Students failed in both exams in section C are what percent of total students in section C? (in %)

(a) 30

(b) 20

(c) 18

(d) 25

(e) 33.33

Q110. Which sections have equal number of students?

(a) section A & B

(b) section A & C

(c) section B & C

(d) all have same no.of students

(e) none

Directions (111-115): Following table gives the detail of items sold by two different stores i.e Store A and Store B and among them percentage of numbers of items purchased by females are given.

	Store A		Sto	re B
Days	Total items	% of items purchased by females	Total items	% of items purchased by females
Monday	230	30%	320	30%
Tuesday	280	45%	440	65%
Wednesday	335	40%	270	80%
Thursday	360	60%	380	25%
Friday	420	65%	275	40%

Q111. Items purchased by females from store A on Wednesday and Thursday together is how much percent more/less than the total items purchased by males from store B on Thursday and Friday together ?



Q112. Find the respective ratio between total number of items purchased by males from store A on Tuesday and Wednesday together to the total numbers of items purchased by females from store B on Thursday and Friday together ?

(a) 45:73
(b) 41:71
(c) 73:41
(d) 71:41
(e) 37:71

Q113. Find the total number of items purchased by males from store B on all the given days together? (a) 936 (b)832 (c) 912 (d) 852 (e) 882





Q114. Total Items purchased on Thursday and Friday together of store A is what percentage of total items purchased on Wednesday and Thursday together of store B ? (a) 125% (b) 100%

(c) 120%

(d) 140%

(e) 80%

Q115. If total items purchased from store A and Store B on Saturday are 20% more and 30% more respectively than the total items sold by store A and B on Wednesday, then find the total number of items purchased from Store A and Store B together on saturday?

(a) 828

(b) 753

(c) 783

(d) 807

(e) 823

Directions (116-120): Following table DI gives the detail of magazines printed by five different companies and distributed among different distributors and answer the following question accordingly.

Name of	printing	Total	number	of	%	of	printed	Number	of
magazines	company	copies	printed		maga	zines		magazines	received
					distri	buted	among	by each dis	tributor.
					distri	butors			
Р		5600			80%			64	
Q		2400			60%			40	
R		3800			75%			95	
S		2500			68%			85	
Т		4500			70%			75	

Note:- magazines were equally distributed among the distributors of respective printing companies.

Q116. What is the average no. of magazines distributed by companies Q, R and T among their respective distributors?

(a) 2720

(b) 2640

- (c) 2480
- (d) 2960

(e) 3120

Q117. Find the total numbers of distributors of magazines of company Q and T together?

(a) 62

- (b) 72
- (c) 84
- (d) 78 (e) 64

Q118. Find the respective ratio of the total number of magazines distributed among the distributors of company R to that of the total no. of magazines distributed among distributors of company T?

(a) 21:19
(b)19:21
(c) 17:21
(d) 21:17

(e) 17:23

Q119. Find the average number of books distributed among the distributors by all the five companies together? (a) 2784

(b) 2664 (c) 2680

(d) 2756

(e) 2724

Q120. Find the difference between total no. of distributors of magazines sold by companies P and Q together to the total no. of distributors of magazines sold by companies R and T together?



Directions (121-135): What will come in the place of the question mark (?) in the following number series?

Q121. 2, 6, 42, 142, 338. ? (a) 665 (b) 632 (c) 631 (d) 682 (e) 662 **Q122.** 87, 89, 86, 91, 84, ? (a) 95 (b) 96 (c) 97 (d) 98 (e) 90

Adda 247 BANKERS	Adda 247
200 Questions of 	0120 15 20 50 00 120 2
Q123. //, 81, /2, 88, 63, ?	Q130. 15, 30, 50, 80, 130, ?
(a) 98	(a) 200
(b) 99	(b) 210 (c) 220
(c) 101	(c) 220
(d) 105	(d) 230
(e) 97	(e) 240
Q124. 3120, 624, 156, ?, 26	Q131. 4, 18, 48, ?, 180, 294
(a) 84	(a) 96
(b) 100	(b) 120 (c) 100
(c) 102	(c) 100 (d) 00
(d) 52	(a) 90
(e) 150	(e) 115
	Q132. 2, 4, 12, 60, ?, 4620
Q125. /, 21, 105, 735, ?	(a) 300
(a) 6235	(b) 380
(b) 3256	(c) 480
(c) 6755	(d) 660
(d) 6515	(e) 420
(e) 6615	0133 2 3 5 8 13 2
0126 1511 302 75 24 2 5	(a) 21
(2) 12 (2) 1311, 302, 73, 21, 1, 3	(b) 19
(a) 12 (b) 10	(c) 17
(b) 10	(d) 24
	(e) 26
(d) 15	
(e) 9	Q134. 150, 395, ?, 900, 1160, 1425
	(a) 650
Q127. 7, 10, 18, 42, 90, ?	(b) 625
(a) 150	(c) 676
(b) 160	(d) 645
(c) 170	(e) 680
(d) 210	
(e) 240	Q135. 100, 96, 87, 71, ?, 10
	(a) 35
0128. 48. 24. 72. 18. 90. ?	(b) 21
(a) 9	(c) 46
(b) 12	(d) 52
(0) 12	(e) 25
(J) 10	
(d) 18	Directions (136-140): What will come in place of the
(e) 15	question mark (?) in the following number series?
Q129. 9, 6, 9, 24, 108, ?	0136. 16, 20, 28, 44, ?
(a) 888	(a) 82
(b) 864	(b) 76
(c) 872	(c) 60
(d) 878	(d) 52
(a) 882	(e) 96







	•
Q137. 2, 11, 36, 85, ?, 287	Q142. If total selling price of Quant book for store A and B
(a) 163	together is Rs. 510. Find M.R.P. of Quant for store B?
(b) 166	(a) Rs.240
(c) 170	(b) Rs.270
(d) 185	(c) Rs.280
(e) 206	(d) Rs.300
	(e) Rs.600
Q138. 8, 6, 14, 40, ?	
(a) 151	Q143. If market price of a reasoning book was 50% more
(b) 148	than cost price of the book for store C. Find profit percent
(c) 80	on selling a reasoning book by store C?
(d) 162	(a) 20%
(e) 98	(b) 15%
	(c) 25%
Q139. 3, 83, 152, 208,249, ?	(d) 10%
(a) 280	(e) 12.5%
(b) 320	
(c) 265	Q144. What is the ratio of average discount given on
(d) 351	quant book by store A, reasoning book by store C and
(e) 273	English book by store B to market price of a book?
	(a) 5:4
0140. 2, 14, 70, ?, 420	(b) 2:3
(a) 190	(c) 3:2
(b) 320	(d) 1:5
(c) 210	(e) 4:5
(d) 200	
(e) 315	Q145. If an English book is sold at Rs. 170 by store A, the

Directions (141-145): Study the paragraph carefully and answer the following questions.

Adda247 publications sold three books i.e. Quant, English and reasoning on three different stores i.e. A, B and C.

Quant, reasoning and English book are sold at 20% discount by store A, C and B respectively. Quant, reasoning and English book are sold at 15% discount by store C, B and A respectively. Discount percent given on Quant book by store B is half of discount percent given on reasoning book by store C. M.R.P. for each book is same at every store.

Q141. Store A sold reasoning book at Rs. 880, find M.R.P of the book if discount given by store A on reasoning book is 20% more than discount given by store B on quant book?

(a) Rs. 1200 (b) Rs. 1000 (c) Rs. 960 (d)Rs. 1240 (e) None of these. find selling price of reasoning book for store C?

(a) Rs. 160 (b) Rs. 170 (c) Rs. 135 (d) Rs. 105 (e) None of these.

Directions (146-150): Pie chart given below shows no. of non-defective article manufactured by five different firms i.e. P, Q, R, S and T. Read the data carefully and answer the following questions. (total article manufactured by any firm = defective + non-defective article)

NO. OF NON-DEFECTIVE ARTICLE



Adda247	Adda 247
BANKERS 200 Questions of Qu	antitative Aptitude
Q146. No. of non-defective article manufactured by firm Q	Q151. 4 men & 3 children completes a project for Rs. 600
is what percent of non-defective article manufactured by	in 3 days. If a man completes same project in 15 days.
firm T?	Find daily wage of a man.
(a) 60%	(a) Rs 36
(b) 62.5%	(b) Rs.40
(c) 37.5%	(c) Rs 44
(d) 50%	
(e) 72.5%	(a) P_{0} (b) P_{0} (c)
	(e) KS.42
0147 If ratio of non-defective to defective article	
manufactured by firm S is 75:2 then find ratio of non-	Q152. Difference between 50% of y and 10% of x is 170
defective article manufactured by firm T to defective	whereas difference between 40% of x and 30% of y is
article manufactured by firm S2	zero. Find the sum of 'x' and 'y' ?
	(a) 770
(a) 37:1	(b) 630
(b) 34:1	(c) 600
(c) 33:1	(d) 700
(d) 24:1	(a) 560
(e) 38:1	(e) 500
Q148. Average no. of non-defective article manufactured	Q153. If ratio of time periods of investment of P and Q is
by firm Q and R is what percent of total no. of non-	4:5, profit at the end of the year is 75000 and P's share is
defective article manufactured by firm S?	Rs 15000, then what is the ratio of Q's and P's
(a) 72 ² / ₃ %	investment?
(b) 66 ² / ₃ %	(a) 5:16
$(1) 33\frac{1}{2}\%$	(b) 6:7
(d) 73 ¹ / ₂ %	(c) 12:13
(a) None of these	(d) 16:5
	(e) 8:5
0140 If no of defective article manufactured by firm D	
Q149. If no. of defective afficie manufactured by firm P	0154 Average of 9 conceptive odd numbers is 10 What
and R are 30% and 30 $\frac{1}{13}$ % respectively of total no. of	Q154. Average of 8 consecutive oud numbers is 10. what
article manufactured by each of these firm, then find	will be the average of smallest 4 numbers out of 8
defective article manufactured by firm P is what percent	numbers?
more/ less than that of firm R?	(a) 7
(a) 20%	(b) 8
(b) 15%	(c) 6
(c) 50%	(d) 4
(d) 25%	(e) 5
(a) 75%	
	0155 The work done by 5 hoves in 20 days can be done by
0150 What is the ratio of non-defective article	10 man in 9 days 4 Man & 4 hous undertack a work to
QIDO. What is the fatto of house to that of D and C	To men in o days. 4 Men & 4 boys undertook a work to
manufactured by firm Q and K together to that of P and S	complete in 3 days for Ks. 540. Find the amount earned by
togetner?	boys for their whole contribution.
(a) 2:1	(a) Rs 236
(b) 1:1	(b) Rs.240
(c) 1:2	(c) Rs.244
(d) 1:3	(d) Rs.248
(e) 3:1	(e) Rs.242





Q156. Sanjay scored 56% marks and passed an exam by 10 marks while Rohit scored 48% marks but failed by 6 marks. What is the pass percentage?

- (a) 52.5%
- (b) 51.5%
- (c) 52%
- (d) 51%
- (e) None of these

Q157. Four books are to be distributed among seven students. If no students gets more than one book, then the number of ways possible to do it is?

- (a) 180
- (b) 240
- (c) 260
- (d) 210
- (e) 220

Q158. In a basket, there are 8 red ball and 6 green ball. If 2 balls are taken out from the basket, then find what is the probability of both ball being either red or green?

(a) 43/91

(b) 47/91

(c) 51/91

- (d) 43/87
- (e) 43/82

Q159. The parallel sides of a trapezium are 4 cm & 10 cm respectively while non-parallel sides are equal to side of square of area 25 sq.cm. find area of trapezium. (in sq.cm.)

- sq.cm.
- (a) 50
- (b) 42
- (c) 56
- (d) 28
- (e) 14

Q160. The ratio of area of square to that of rectangle of length 10 cm is 4 : 5. If breadth of rectangle is same as side of square. Find length of diagonal of square.

- (a) 9√2 cm
- (b) 10√2 cm
- (c) 6√2 cm
- (d) 4√2 cm
- (e) 8√2 cm

Directions (161-165): Given line graph shows the sum invested, rate of interest and time period of investment by 4 people. Study the data carefully and answer the questions.

(NOTE: all invested their sum at simple interest)



Q161. How much will Rohit receive after completion of his investment period? (in Rs.)

- (a) 5200
 (b) 6800
 (c) 4800
 (d) 4400
- (<mark>e) 46</mark>00

Q162. Interest amount received by Mahesh is what percent more than interest amount received by Karan? (a) 85%



Q163. What is total amount received as interest by Anurag & Rohit together? (in Rs.)

- (a) None of these
- (b) 3150
- (c) 3200
- (d) 3360
- (e) 3420

Q164. If Karan had invested same sum at compound interest at same rate of interest for same period. How much more would he earn?

- (a) Rs 80 (b) Rs 90
- (c) Rs 70
- (d) Rs 60
- (e) None of these





Q165. Who among the four had received the highest amount as interest? (a) Karan (b) Anurag (c) 108 (c) Both Anurag & Mahesh (d) 100 (d) Rohit (e) 98 (e) Mahesh

Directions (166-170): Following Table chart gives the details of 5 students of a particular school in five different subjects in the annual exam.

	Moths(150)	Physics(150)	Chemistry(150)	English(100)	Computer(100)
Amit	70	66	58	54	80
Aakash	50	64	78	65	75
Siddharth	48	72	88	70	86
Lokesh	80	76	84	75	85
Ritesh	76	82	64	72	94

Note:-the data provided in the table is percentage of marks out of total marks in that particular subject.

Q166. Total marks scored by lokesh in physics, chemistry and maths together is how much more/less than total marks scored by Amit in the same three subjects together?

- (a) 75
- (b) 65
- (c) 69
- (d) 55
- (e) 80

Q167. Find the overall percentage of marks scored by Siddharth in the exam?

- (a) 75%
- (b) 82%
- (c) 68%
- (d) 72%
- (e) 80%

Q168. Find the difference of total marks scored by Ritesh in all the given subject together and total marks scored by Aakash in all the given subjects together?

(a) 71

- (b) 84
- (c) 78
- (d) 82
- (e) 93

Q169. Find the average marks scored in physics subject by all the given five students together? (a) 105 (b) 110

Q170. Total marks scored by Aakash, Siddharth and Lokesh in English is what percentage of the total marks scored by Amit, Aakash and lokesh in maths?

(a) 75%

(b) 70%

(c) 65%

- (d) 68%
- (e) 80%

Directions (171-175): Given pie graph shows percentage distribution of watches manufactured by a company in **2018**. Study the graph carefully & answer the questions.



Q171. What is average of watches manufactured by Casio, Titan & Sonata together?

- (a) 500
- (b) 600
- (c) 400
- (d) 200
- (e) 300

Q172. What is ratio of watches manufactured by Timex & Sonata together to that by Fossil & Casio together?

- (a) 5:4
- (b) 8:7 (c) 7:8
- (d) 7:4
- (e) 5:8

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BANKERS



BANKERS	200 Questions of Qu	antitative Aptitude
0173. Watches n	nanufactured of Sonata are what percent	0177. If the ratio of males to females in pharmacy and
more/less than w	vatches manufactured of Rado?	finearts departments are 1:2 and 3:2 respectively, then
(a) 130%		find the total number of females in pharmacy and finearts
(b) 150%		together?
(c) 200%		(a) 784
(d) 170%		(h) 712
(e) 100%		(c) 736
		(d)756
Q174. If next year	ar, Titan watch production increases by	(a) 812
10% while that	of Timex decreases by 10%. What is	
difference in man	ufacturing of both in next year?	0178. Find the central angle of the total students of
(a) 80		architecture department of the university?
(b) 90		(a) 64.8°
(c) 100		(h) 75.6°
(d) 65		(c) 72°
(e) 75		(d) 43.2°
0175 No of wat	when many factured of how many brands	(e) 68 4°
Q1/5. NO. OF Wat	ches manufactured of now many brands	
(a) A	age no. of watches manufactureu?	0179 Number of students who failed in the final
(a) + (b) + (b) + (c)		semester exam from MBBS and Finearts dent are 20% and
(c) 1		15% respectively of their respective dent, then find the
(d) 2		total number of student who passed the semester from
(e) 5		MBBS and Finearts dent?
		(a) 1345
Directions (176	-180): Study the charts given below	(h) 1323
carefully and an	swer the following questions.	(c) 1368
Pie chart shows	the distribution of total students of a	(d) 1420
university in diffe	erent departments as shown below.	(e) 1456
	Total Students = 5400	
		0180. Total students from engineering and pharmacy
		department together is approximately what percentage of
	Fine arts MBBS	the total students from MBBS and Fine arts dept?
	10% 20%	(a) 122%
Ar	chitect	(b) 148%
	ure	(c) 126%
	18% BSc	(d) 143%
	1270	(e)134%
	Engineer	
	ing Pharmac	Bilingual
	25% /	NRA CET Ready
Q176. Find the	ratio of total number of student from	
engineering and a	architecture department together to total	
students from	the pharmacy and BSc department	
together?		МАНА РАСК
(a) 27:43		
(b) 27:47		Live Classes, Video Courses,
(c) 43:27		Test Series, eBooks
(d) 47:27		
(e) 37:42		





Directions (181-185): Study the charts given below
carefully and answer the following questions.Q184. Out of total hockey
lovers are in the ratio 9

Pie chart shows the percentage distribution of total Spectators of a particular city loving different sports as shown below.





Q181. Total spectators of Badminton and kabaddi together is what percentage of total spectators of cricket and hockey together ?

(a) 70%

- (b) 75%
- (c) 80%
- (d) 65%
- (e) 60%

Q182. Find the ratio of total spectators of Football and tennis together to the total spectators of Cricket?

(a) 17:12 (b) 11:15

(c) 15:11

- (d)12:17
- (e) 13:18

Q183. Find the central angle of total spectators of badminton and tennis together?

(a) 79.2°

(b) 136.8°

(c) 115.2°

(d) 126°

(e) 133.2°

Q184. Out of total hockey spectators, male and female lovers are in the ratio 9: 6 respectively, then find difference between male and female spectators of hockey? (a) 524 (b) 484

- (c) 336
- (d) 504
- (e) 472

Q185. Total spectators of cricket and football together is how much more/less than total spectators of badminton and tennis together?

(a) 160

(b) 140

- (c) 180
- (d) 200
- (e) None of these

Directions (186-190): In each of these questions, two equations (I) and (II) are given. You have to solve both the equations and answer the following questions.

```
0186. I. 2x^2 - 17x + 36 = 0
           II. 2y^2 - 19y + 45 = 0
 (a) x > y
 (b) x < y
 (c) x \ge y
 (d) x \leq y
 (e) x = y or no relation.
 0187. I. x^2 - 25x + 154 = 0
           II. y^2 - 28y + 195 = 0
 (a) x > y
 (b) x < y
 (c) x \ge y
 (d) x \le y
 (e) x = y or no relation.
Q188. I. \frac{10}{x} - \frac{24}{x^2} = 1
(a) x > y II. \frac{5}{y} - \frac{6}{y^2} = 1
 (b) x < y
 (c) x \ge y
 (d) x ≤ y
 (e) x = y or no relation.
```



200 Questions of Quantitative Aptitude



0189. $1.2v^2$ 10v $8=0$	0194. $1 x^2 4x 21 = 0$
1.5x - 10x - 6 = 0	$x = -\frac{1}{1} x^2 - 4x - 21 = 0$
11.2y - 23y + 60 = 0	$11. y^2 - 16y + 63 = 0$
(a) x > y	(b) if $x > y$
(b) x < y	(c) if $x < y$
(c) $x \ge y$	(d) if $x < y$
(d) $x \le y$	(a) if $x = y$
(e) x = y or no relation.	(e) if x = y of no relation can be established between x and
	y
Q190. I. 12x - 16y = -16	0105 $I_{2x} = 3y - 1$
II. 17y – 13x = 12	(195. 1.2x - 5y - 1)
(a) $x > y$	$\prod_{x \neq y} y = 7$
(b) $x < y$	(a) If $x > y$
$(c) \times y$	(b) If $x \ge y$
$(c) \times = y$	(c) if $x < y$
$(a) x \leq y$	(d) if $x \le y$
(e) $x = y$ or no relation.	(e) if x = y or no relation can be established between x and
	У
Directions (191-195): In each of these questions, two	
equations (I) and (II) are given. You have to solve both the	Directions (196-200): In each of these questions, two
equations and give answer	equations (I) and (II) are given. You have to solve both the
	equations and give answer
0191. I. $4x^2 + 4x + 1 = 0$	
II. $9v^2 + 6v + 1 = 0$	Q196. I. $4x^2 + 4x - 3 = 0$
(a) if $x > y$	II. $4y^2 - 8y + 3 = 0$
	(a) if $x > y$
(b) If $x \ge y$	(b) if $x \ge y$
(c) if $x < y$	(c) if $x < y$
(d) if $x \le y$	(d) if $x \leq y$
(e) if x = y or no relation can be established between x and	(e) if $x = y$ or no relation can be established between x and
у	v
Q192. I. $(x-2)^2 - 4 = 0$	0197 I. $11x - 13y + 48 = 0$
II. $y^2 + 1 - 2y = 0$	II. $13y + 11x = 290$
(a) if $x > y$	(a) if $x > y$
(a) if $x > y$	(h) if $x > y$
(b) if $x \in y$	(c) if $x < y$
(a) If $X \leq Y$	(u) if $x = y$ (a) if $x = y$ or no relation can be established between y and
(e) if $x = y$ or no relation can be established between x and	(e) if x = y of no relation can be established between x and
у	y
	0100 1.2
Q193. I. $3x + 2y = 5$	Q198. 1. $2x + 3xy = 207$
II. $4x + 6y = 10$	II. $15x = \frac{945}{3}$
(a) if $x > y$	y A NIG
(b) if $x \ge y$	(a) if x > y
(c) if $\mathbf{x} < \mathbf{y}$	(b) if $x \ge y$
	(c) if x < y
$(u) II X \ge y$	(d) if $x \le y$
(e) If $x = y$ or no relation can be established between x and	(e) if x = y or no relation can be established between x and
у	у



(b) if $x \ge y$	(b) if $x \ge y$
(c) if x < y	(c) if $x < y$
(d) if $x \le y$	(d) if $x \le y$
(e) if x = y or no relation can be established between x and	(e) if x = y or no relation can be established between x and
у	У

Solutions

S1. Ans.(d) Sol. $? \simeq \left(\sqrt{625} + \sqrt{1600}\right) \div \left(\frac{560 \times 30}{100} - \frac{250 \times 62}{100}\right)$ $? \simeq \frac{(25+40)}{(168-155)} \simeq \frac{65}{13} = 5$	S6. Ans.(a) Sol. $\frac{60}{100} \times 880 + \frac{80}{100} \times 590 = ?$? = 1000
S2. Ans.(b) Sol. $? \simeq \frac{729 \times 81 \times 108}{27 \times 36} = 6561$	S7. Ans.(b) Sol. 14×6÷ 42 = ? ÷ 6 ? = 12
S3. Ans.(e) Sol. $?^{2} + (32)^{2} - \sqrt{144} \times 8^{2} \simeq 73\% \text{ of } 400$ $?^{2} + 1024 - 12 \times 64 = 292$ $?^{2} \simeq 292 - 1024 + 768$ $?^{2} \simeq 36$ $? \simeq 6$ S4. Ans.(a) Sol. $48\% \text{ of } 350 + 60\% \text{ of } 280 \simeq 97\% \text{ of } 300 + ?\% \text{ of } 150$ $\Rightarrow ? \times 1.5 \simeq 168 + 168 - 291$ $? \simeq \frac{45}{15} = 30$	S8. Ans.(c) Sol. $\frac{900}{45} \times 4 \times 70 = ?$? = 5600 S9. Ans.(a) Sol. $\frac{4444}{100} \times \frac{10}{44} \times \frac{10}{101} = (?)^2 \times \frac{1}{100}$ (?) ² = (10) ² ? = 10 S10. Ans.(e) Sol
S5. Ans.(e) Sol. $2^{?} \simeq \frac{128 \times 512 \times 16}{2048 \times 32} \simeq 16$ $2^{?} \simeq 2^{4}$ $\Rightarrow ? = 4$	Sol. $5 \times 12 + 9 + 4 + 11 = ?$? = 84 S11. Ans.(a) Sol. 2000 ÷ 50 × 3 + 5 = (?) ³ ? = 5





S18. Ans.(d)

Sol.



S12. Ans.(c)

Sol.	
$\frac{6}{10} \times 320 +$	$\frac{1}{10} \times 1600 = -177 + (?)^2$
(?)* = 529	
? = 23	

S13. Ans.(d)

Sol.

 $1.101 + 11.01 + \frac{101.01}{1.01} = ?$ $\Rightarrow ? = 1 + 11 + 101$? = 113

S14. Ans.(a)

Sol. $45 \times 3 - 35 = ? \times 10$ $? = \frac{100}{10}$? = 10

S15. Ans.(e)

Sol. $\frac{1391}{26} \times 2 + 256 = ?$? = 363

S16. Ans.(d)

Sol. Let votes received by BJP, INC & SP be 11x, 3x & 5x respectively. Atq, 11x - 5x = 24000 x = 4000 Required sum = 3x +5x = 8 × 4000 = 32000

S17. Ans.(a)

Sol.

Total valid votes in D = $60000 \times \frac{75}{100}$ = 45000 Valid votes received by BJP in D = 45000 $\times \frac{70}{100}$ = 31500 Valid votes received by INC = 45000 - 31500 = 13500 Required difference = 31500 - 13500 = 18000 Then, Votes received by BJP in E = (x + 15000) + 15000= x+ 30000 Atq, x + x+ 15000 + x+ 30000 = 75000 × $\frac{80}{100}$ 3x + 45000 = 60000

Let valid votes received by AAP in E be x So, valid votes received by INC in E = x+15000

x= 5000 So, required number of valid votes = x+ 30000 = 35000

S19. Ans.(a)

3x = 15000

Sol. Votes received by INC in B = 90000 × $\frac{40}{100}$ = 36000 Invalid votes received by INC in B = 90000 × $\frac{40}{100}$ × $\frac{1}{3}$ = 12000 So, total valid votes received by INC in B = 36000 - 12000 = 24000

S<mark>20. A</mark>ns.(c)

Sol. Valid votes received by INC in C = $40000 \times \frac{90}{100} \times \frac{2}{12}$ = 6000 Valid votes received by SP in C = $40000 \times \frac{90}{100} \times \frac{3}{12}$ = 9000 Invalid votes received by INC in C = $40000 \times \frac{10}{100} \times \frac{3}{10}$ = 1200 Invalid votes received by SP in C = $40000 \times \frac{10}{100} \times \frac{4}{10}$ = 1600 Required difference = (9000 + 1600) - (6000 + 1200) = 10600 - 7200 = 3400

S21. Ans(d)

Sol.

Average number of students of school A across all the years $=\frac{280+340+370+240+210}{5}$

Average number of students of school B across all the years $=\frac{350+310+260+340+250}{2}$

5 =302 Required difference = 302 -288 =14





S22. Ans(a)

Sol.

Total number of students of school A in 2011 and 2012 together=280+340 =620

Total number of students of school C in 2013 and 2014 together=280+380 =660

Required ratio= $\frac{620}{660}$ =31 : 33

S23. Ans.(d)

Sol.

total number of students in 2016 in all the schools together = $210 \times \frac{110}{100} + 250 \times \frac{120}{100} + 260 \times \frac{115}{100} = 231+300+299$ =830

S24. Ans(a)

Sol.

Total students of all the three schools together in 2013= 370+260+280 =910

Total students of school B in 2011 and 2015 together= 350+250 =600

Required percentage= $\frac{910-600}{600} \times 100 = 51.66 \%$ =52% (approx.)

S25. Ans(d)

Sol.

Total number of students from all the schools in 2011 and 2013 together =(280+350+220)+(370+260+280) =1760 Total number of students from all the schools in 2014 and 2015 together =(240+340+380)+(210+250+260) =1680 Required difference=1760 - 1680 =80

S26. Ans(b)

Sol.

Total number of students who have opted for MBBS in all the colleges together = $700 \times \frac{40}{100} + 800 \times \frac{25}{100} + 400 \times \frac{32}{100} + 900 \times \frac{36}{100}$ =932 Required average = $\frac{932}{4}$ =233

S27. Ans(d)

Sol.

Total no. of students who have opted for both Engg. and MBBS together in college Q = $800 \times \frac{40}{100} + 800 \times \frac{25}{100}$ =520

Total no. of students who have opted for both Engg. and MBBS together in college R = $400 \times \frac{44}{100} + 400 \times \frac{32}{100}$

=304

Required ratio= $\frac{520}{304}$ =65 : 38

S28. Ans(a)

Sol.

Total number of students who have opted for MBBS in college P =700 $\times \frac{40}{100}$ =280

Total number of students who have opted for the engg. in college Q = $800 \times \frac{40}{100} = 320$

Required percentage= $\frac{280}{320} \times 100$ =87.5%

S29. Ans(c)

Sol.

Total number of students who have opted for engg. stream in college R

Total number of students who have opted for engg. stream in college R =400× $\frac{44}{100}$ =176

Total number of students who have opted for engg. stream in college P = $700 \times \frac{32}{100} = 224$

Required ratio = $\frac{176}{224}$ =11:14

S30. Ans(b)

Sol.

Total student in pharmacy in college P= $700 \times \frac{28}{100} = 196$ Total student in pharmacy in college Q= $800 \times \frac{35}{100} = 280$ Total student in pharmacy in college R= $400 \times \frac{24}{100} = 96$ Total student in pharmacy in college S= $900 \times \frac{22}{100} = 198$ So, maximum no. of student is in college Q in pharmacy Total student in engg. in college P= $700 \times \frac{32}{100} = 224$ Total student in engg. in college Q= $800 \times \frac{40}{100} = 320$ Total student in engg. in college R= $400 \times \frac{40}{100} = 176$ Total student in engg. in college S= $900 \times \frac{42}{100} = 378$ So. Maximum no. of student is in college S in engg. Therefore, required pair is Q & S

S31. Ans(b)

Sol.

Number of Honda city car sold in Ahmedabad=320 Number of Innova car sold in Surat=480 Required percentage= $\frac{320}{480} \times 100 = 66\frac{2}{3}\%$

S32. Ans(d)

Sol.

Total creta car sold in Delhi and Mohali together=420+280=700Total innova car sold in Kolkata and Ahmedabad together=320+500=820Required ratio= $\frac{700}{820}=35:41$







S33. Ans(a)

Sol.

total number of cars sold in Kolkata=320+360+460=1140

S34. Ans(e)

Sol.

Total number of Honda city cars sold in delhi=540 Total number of creta cars sold in surat=450 Required difference=540 -450=90

S35. Ans(c)

Sol.

Total number of Honda city car sold in all the cities together =460+320+340+540+420=2080 Average= $\frac{2080}{5}$ =416

S36.Ans.(d)

Sol.

required difference = average marks scored by Student A -Average marks scored by Student B

$$\therefore \frac{70+90+60+55}{4} - \frac{50+80+75+65}{4} = \frac{5}{4} = 1.25$$

S37.Ans(c)

Sol.

marks obtained by student A in Math and Computer together =70 + 90 = 160 marks obtained by student B in Science and English together=75+65 =140 required ratio = 160:140= 8:7

S38. Ans(b) Sol.

Overall percentage marks of Student B = $\frac{50+80+75+65}{400} \times 100 = 67.5$

S39. Ans.(c)

Sol.

Marks Scored by Student A in Math =70 Marks Scored by Student B in Science and English =75+65=140 Required % $=\frac{70}{140} \times 100 =50\%$

S40. Ans.(b)

Sol.

A.T.Q, passing marks $=\frac{40}{100} \times 120 = 48$ \therefore required difference = 80 - 48 = 32

Sol.
Unsold buses of company - B in 2016, 2017 & 2018 together

$$= \left(2000 \times \frac{20}{100}\right) + \left(3000 \times \frac{10}{100}\right) + \left(4000 \times \frac{20}{100}\right)$$

$$= 400 + 300 + 800$$

$$= 1500$$
Required average = $\frac{1500}{3}$

$$= 500$$

S42. Ans.(a)

S41. Ans. (c)

Sol.

Buses manufactured by company - A in 2016 & 2018 together = 4000 + 3500 = 7500 Buses manufactured by company - D in 2017 & 2018 together = 2000 + 3000 = 5000 Required % = $\frac{7500-5000}{5000} \times 100$ = 50%

S43. Ans.(d)

Sol.

Buses sold by company - B & E together in $2016 = \left(2000 \times \frac{75}{100}\right) + \left(2500 \times \frac{80}{100}\right)$ = 1500 + 2000 = 3500 Unsold buses of company - B & E together in 2016 = (2000 + 2500) - (3500)= 1000 Required ratio = $\frac{3500}{1000}$ = 7 : 2

S44. Ans.(e)

Sol.

Buses manufactured in 2018 by all these 5 companies together = 3500 + 4000 + 2000 + 3000 + 2500 = 15000 Buses manufactured in 2016by all these 5 companies together = 4000 + 2000 + 3500 + 1000 + 2500 = 13000 Required % = $\frac{15000}{13000} \times 100$ = 115.38% = 115% (approx.)

S45. Ans.(d)

Sol.

Average number of buses manufactured by company – B, C & D in 2017 $=\frac{3000+2500+2000}{3}$ = 2500 Buses manufactured by company – D & E together in 2016 = 1000 + 2500 = 3500 Required difference = 3500 - 2500

= 1000

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BANKERS 200 Questions of	of Quantitative Aptitude	
S46. Ans(e)	S51. Ans(d)	
Sol.	Sol.	
Pattern is	Pattern is	
$6 \times 1 + 1 = 7$	$3 + (5 \times 1) = 8$	
$7 \times 2 + 2 = 16$	$8 + (5 \times 2) = 18$	
$16 \times 3 + 3 = 51$	$18 + (5 \times 3) = 33$	
$51 \times 4 + 4 = 208$	$33 + (5 \times 4) = 53$	
$208 \times 5 + 5 = 1045$	$53 + (5 \times 5) = 78$	
\$47 Ans (c)	S52. Ans(a)	
Sol.	Sol.	
Pattern is	Pattern is	
$2000+(8)^2=2064$	$3^2 = 9$	
$2064+(10)^2=2164$	$4^3 = 64$	
$2164 + (12)^2 = 2308$	$5^2 = 25$	
$2308+(14)^2=2504$	$6^3 = 216$	
2504+(16) ² =2760	$7^2 = 49$	
2001 (10) 2700	$8^3 = 512$	
\$48 Ans (b)	0 011	
Sal		
	SS3. Ans(e)	
Pattern is	501.	
800-(5×6) =770	Pattern is	
//0-(6X /)=/28	$12 \times 2 + 12 = 36$	
$728 - (7 \times 8) = 672$	$36 \times 2 + 8 = 80$	
672-(8×9)=600	$80 \times 2 + 4 = 164$	
600-(9×10)=510	$164 \times 2 + 0 = 328$	
	$328 \times 2 - 4 = 652$	
\$49. Ans(a)		
Sol.	S54. Ans(d)	
Pattern is	Sol.	
500+48 =548	15 + 8 = 23	
548+72 =620	23 + 7 = 30	
620+96 =716	30 + 6 = 36	
716+120=836	36 + 5 = 41	
836+144 =980	41 + 4 = 45	
\$50. Ans(d)	S55. Ans(a)	
Sol.	Sol.	
Pattern is	Pattern is	
$10 \times 2 = 20$	$7 \times 2 = 14$	
$20 \times 3 = 60$	$14 \times 2 = 28$	
$60 \times 5 = 300$	28 × 2 = 56	
$300 \times 7 = 2100$	$56 \times 2 = 112$	
$2100 \times 11 = 23100$	$112 \times 2 = 224$	
	I	

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S56. Ans(b)	S61. Ans.(a)	-
Sol.	Sol.	
Pattern followed is	1528 + 21 - 840 - 510 = ?	
250 + (5) ³ =375	? = 1549 - 1350	
375 + (6) ³ =591	? = 199	
591 + (7) ³ =934		
934 + (8) ³ =1446	\$62 Ans (c)	
1446 + (9) ³ =2175	Sol	
	35	
\$57 Ans (d)	$\frac{38}{7}$ + 296 - 1944 = ? - 1800	
Sol	301 + 1800 - 1944 = ?	
Battern fellowed is	? = 157.	
Pattern followed is		
$30 \times 3 = 90$		
$90 \times 4 = 360$	S63. Ans.(b)	
$360 \times 5 = 1800$	Sol.	
$1800 \times 6 = 10800$	$\frac{65}{100} \times 180 + \frac{7}{100} \times 210 = \frac{80}{100} \times 225$	
$10800 \times 7 = 75600$		
	$\frac{100}{100} \times 210 = 180 - 117$	
S58. Ans.(a)	$? = \frac{63 \times 100}{210} = 30$	
Sol.	210	
Pattern followed is	S64. Ans.(e)	
39600 ÷ 6 = 6600	Sol.	
6600 ÷ 5 = 1320	1500 + 140 - 1 + ? = 1764	
1320 ÷ 4 = 330	2 = 1764 - 1639	
330 ÷ 3 = 110	2 = 125	
110 ÷ 2 = 55	? - 125	
S59. Ans.(e)	S65. Ans.(d)	
Sol.	Sol.	
Pattern followed is	$\frac{13}{13} \times \frac{8}{153} \times 153 = 2$	
200 + (12 × 1) =212	$\frac{17}{17}$ 156 133 $^{-1}$	
212 + (12 × 2) = 236	? = 6	
$236 + (12 \times 4) = 284$		
$284 + (12 \times 8) = 380$	RUINGUA	
380 + (12 × 16) =572	BEINGAL	
	Video Solutions	
S60. Ans.(b)		
Sol.	BANK	
Pattern followed is	DAININ	
$8000 - (30)^2 = 7100$	DRIME	
$7100 - (25)^2 = 6475$		
$6475 - (20)^2 = 6075$	TEST PACK	
$6075 - (15)^2 = 5850$		
$5850 - (10)^2 = 5750$	RBI, LIC, IBPS RRB, SBI, IBPS PO I Clerk & Others	
2000 (10) 0/00	1200+ TOTAL TESTS	
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S66. Ans.(b)

Sol. ? $+2\frac{1}{2} + 1\frac{1}{4} = 1\frac{1}{8} + 4\frac{1}{2} + 7\frac{1}{4}$? $= (1 + 4 + 7 - 2 - 1) + \left[\frac{1}{8} + \frac{1}{2} + \frac{1}{4} - \frac{1}{2} - \frac{1}{4}\right]$? $= 9\frac{1}{8} = \frac{73}{8}$

S67. Ans.(d) Sol.

 $69 + (5)^{2} \times (2)^{2} = (?)^{2}$ $169 = (?)^{2}$ $(?)^{2} = (13)^{2}$ $\therefore ? = 13$

S68. Ans.(c)

Sol. $\frac{180 \times 170}{16 \times ?} = 918 + 612$ $? = \frac{180 \times 170}{16 \times 1530}$? = 1.25

S69. Ans.(e) Sol. $(?)^2 = 621 + 144 + 100 - 576$ $(?)^2 = 289 = (17)^2$? = 17

S70. Ans.(e) Sol. ? = (780) ÷ (2820 - 2780) ? = 780 ÷ 40 = 19.5

S71. Ans.(b)



S72. Ans.(a) Sol. ATQ, Average wt. Average wt. of Girls of boys 60 55 58 boys girls Let no. of boys = 3x and no. of girls = 2x Number of boys = 3x = 720⇒ x = 240 No. of girls =2x = 480\$73. Ans. (b) Sol. $116\frac{2}{3}\% = \frac{7}{6}$ $\Rightarrow 1 \rightarrow 21$ So, $7 \rightarrow 147$ New no. is 147. S74. Ans.(c) Sol. P:Q = 2:3P:R = 5:7 \Rightarrow Q : P : R = 15 : 10 : 14 Let profit earned by Q be 15x, by P be 10x and by R be 14x. ATQ, 4x=76 x=19 Profit earned by Q=15x=15×19=Rs 285 S75. Ans.(d) Sol. $A + B + C = 93 \times 3$ A + B + C = 279A + B + C + D = 279 + 81 = 360 Required average $=\frac{360}{4}$ = 90 kg







S76. Ans.(e)

Sol. let actual SP be Rs. x New selling price = Rs. $\frac{4x}{5}$ Let CP be Rs. y $ATQ, \frac{\frac{4x}{5} - y}{y} = \frac{20}{100} = \frac{1}{5}$ $\frac{\frac{4x}{5} - y = \frac{y}{5}}{\frac{y}{x} = \frac{2}{3}}$ When article sold at actual selling price, Profit % = $\frac{x - y}{y} \times 100 = \frac{\frac{3y}{2} - y}{y} \times 100 = 50\%$ S77. Ans.(a)

Sol. SI = 24000 - 20000 = Rs. 4000 $4000 = \frac{20000 \times 2 \times R}{100}$ R = 10% Required amount = 20000 + $\frac{20000 \times 12 \times 3}{100}$ = Rs. 27200

S78. Ans.(c)

Sol. let CP be Rs. x $MP = \frac{150}{100} \times x = Rs. 1.5x$ $SP = \frac{80}{100} \times 1.5x = Rs. 1.2x$ Amount returned to Karan = $\frac{90}{100} \times 1.2x = Rs. 1.08x$ Profit % (shopkeeper) = $\frac{1.2x - 1.08x}{x} \times 100 = 12\%$

S79. Ans.(a)

Sol. ATQ, $\frac{x \times 14 \times 3}{100} - \frac{x \times 10 \times 3}{100} = 120$ $\frac{(42 - 30)x}{100} = 120$ x = Rs. 1000Required answer = $5x = 5 \times 1000 = Rs. 5000$ S80. Ans.(c) Sol. ATQ, $\frac{P \times 10 \times 2}{100} + 200 = \frac{P \times 20 \times x}{100}$ $\frac{20P_x}{100} - 200 = \frac{20P}{100}$ $\frac{20P}{100} = \frac{20 \times 5000}{100} - 200 = 800$ P = Rs. 4000 $x = \frac{5000}{1000} = \frac{5}{4}$ years or 15 months S81.Ans.(c) Sol. Total interest received in 8 yrs=2408-1400=Rs 1008 Interest for 1^{st} 4 years= $\frac{1400 \times 4 \times 12}{100}$ = Rs 672 So, interest for last 4 years=1008 -672= Rs 336 Interest rate for last 4 years = $\frac{336 \times 100}{1400 \times 4}$ = 6% S82. Ans.(a) Sol. let CP of bags be Rs. 4x & Rs. 5x respectively. Total SP of bags = $\frac{110}{100} \times 4x + \frac{120}{100} \times 5x = 4.4x + 6x = Rs. 10.4x$ Required Profit % = $\frac{10.4x - 9x}{9x} \times 100 = 15\frac{5}{9}\%$ S83. Ans(b) Sol. let rate of interest be R% SI = 15000 - 12000 = Rs. 3000 $3000 = \frac{12000 \times R \times 18}{12000 \times R \times 18}$ 12×100 $R = \frac{100}{100}\%$

Required amount = $5000 + \frac{5000 \times 100 \times 30}{100 \times 6 \times 12} = Rs.7083.33$

S84. Ans(a)

Sol. Overall rate for 2 yrs at the rate of 10% compounded yearly $=10+10+\frac{10\times10}{100}=21\%$ According to the question, 21%=672 $100\%=\frac{672}{21}\times100=3200$ rs Simple interest= $\frac{3200\times14\times4}{100}$ =Rs 1792





S85. Ans(b)

Sol. Let cost price of the item be 100x Marked price of the item=100x+ $100x \times \frac{60}{100}$ =160x Selling price of items after giving discounts= $160x \times \frac{90}{100} \times \frac{85}{100}$ =122.4x Profit percentage= $\frac{122.4x - 100x}{100x} \times 100$ =22.4 %

S86. Ans(d)

Sol.

let CP be Rs. x SP (Johny) = $\frac{110}{100} \times x = Rs. 1.1 x$ Since Jini calculate profit at SP $\frac{SP-x}{SP} \times 100 = 10$ 10 SP - 10x = SP $SP = Rs. \frac{10}{9} x$ Required ratio = $1.1x : \frac{10x}{9} = 99 : 100$

S87. Ans(c) Sol. let rate of interest be R% & principal be Rs. P SI = 2P - P = Rs. P $P = \frac{P \times R \times 5}{100}$ R = 20%To become 12 times, SI = 12P - P = Rs. 11P $11P = \frac{P \times 20 \times T}{100}$ where T is time period in years T = 55 years

S88.Ans(c)

Sol. Let original cost price of the article be Rs.100x. So, original selling price of the article = $100x \times \frac{110}{100}$ = Rs.110x Now, new cost price of the article = $100x \times \frac{95}{100}$ = Rs.95x And, new selling price of the article = Rs.(110x + 120) ATQ, $95x \times \frac{120}{100} = 110x + 120$ $\Rightarrow 4x = 120$ x = 30So, cost price of the article = 100x = Rs.3000 Adda 247

S89. Ans(a) Sol. Let R be effective interest and P be principal amount So, $R = \frac{20}{2} = 10\%$ And, period of time= 2 × 2 = 4 (as it is compounded half- yearly)

 $C.I=P(1+\frac{R}{100})^{4} - P$ =4000(1+ $\frac{10}{100}$)^{4} -4000 =Rs 1856.4

S90. Ans(d)

Sol.

let cost price of purse be Rs 100x $MP = \frac{130}{100} \times 100x = Rs. 130x$ $SP = \frac{80}{100} \times 130x = Rs. 104x$ $CP (3 \text{ purses}) = 3 \times 100x = Rs. 300x$ $SP (3 \text{ purses}) = 3 \times 104x = Rs. 312x$ But shopkeeper offered 10% extra discount Actual SP (3 purses) = $\frac{90}{100} \times 312x = Rs. 280.8x$ Loss % = $\frac{300x - 280.8x}{300x} \times 100 = 6.4\%$

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S91. Ans.(d)

Sol.

Pattern is

5 \times 1 + 2 = 7

7 \times 3 + 4 = 25

25 \times 5 + 6 = 131

131 \times 7 + 8 = 925

925 \times 9 + 10 = 8335
```





S94. Ans.(e)

Pattern is 5 × 0.5 +3 = 5.5 $5.5 \times 1 + 6 = 11.5$

S95. Ans.(d)

Pattern is

 $\frac{1656}{3} - 3 = 549$

 $\frac{549}{3} - 3 = 180$

 $\frac{180}{3} - 3 = 57$

- 3 = 16.

Sol.

 $11.5 \times 2 + 12 = 35$

 $35 \times 4 + 24 = 164$

164 × 8 + 48 = 1360

Sol.

200 Questions of Quantitative Aptitude



\$99. Ans.(e) Sol. Required ratio = $\frac{20 \times 220}{30 \times 50}$ = 44 : 15 S100. Ans.(d) Sol. Required percentage = $\frac{(20+10)-(15+5)}{(20+10)} \times 100 = 33\frac{1}{3}\%$ S101. Ans.(d) Sol. Required sum = $(15 \times 10 - 5 \times 30) + (30 \times 20 - 15 \times 10) = Rs. 450$ S102. Ans.(d) Sol. Let length of train = 2L m Length of tunnel = L m ATQ, $3L = 144 \times \frac{5}{18} \times 30$ L = 400 mLength of train = 800 m ∴ Length of other train = 2 × 800 = 1600 m 60% of speed = $144 \times \frac{5}{18} \times \frac{60}{100} = 24$ m/sec. ∴ (1600 + 800) = 24 × time : time = 100 sec. S103. Ans.(d) Sol. Using Alligation, Watch Purse 50_% 0 +_100 50 Watch : Purse = 2 : 1 Let cost price of watch be Rs. 2xPurse be Rs. x ATO. $\frac{100}{300} \times 2x - \frac{50}{300} \times x = 50$ x = Rs.100∴ cost price of watch = 2 × 100 = Rs. 200

\$96. Ans.(b)

Sol.

Cost per kg of sugar = $90 \times \frac{3}{5}$ = Rs. 54 Cost per kg of salt = $90 \times \frac{2}{5}$ = Rs. 36 Required difference = 15 × 54 - 5 × 36 = 810 - 180 = Rs. 630

S97. Ans.(c) Sol.

Cost per kg of tea = $\frac{5000}{20}$ = Rs. 250 Cost per kg of wheat $=\frac{450}{10}$ = Rs. 45 Required percentage = $\frac{10}{250-45} \times 100 = 82\%$

\$98. Ans.(a)

Sol.

Let cost per kg of rice be Rs. x & cost per kg of sugar be Rs. y ATO, $x + y = 450 \dots (i)$ After change $x \times \frac{2}{3} + y \times \frac{4}{3} = 500$ 2x + 4y = 1500x + 2y = 750 ...(ii) From (i) & (ii) y = Rs. 300





S104. Ans.(e)

Sol.

Let speed of stream be x km/hSo, speed of boat = 3x km/hSpeed of boat in upstream = 2x km/hSpeed of boat in downstream = 4x km/hRatio of speed of boat in downstream and upstream is 2 : 1 So ratio of time taken = 1 : 2 So time taken in upstream = $\frac{2}{(1+2)} \times 6 = 4$ hour

S105. Ans.(a) Sol.

We know,

S.I. = $\frac{P \times R \times time}{100}$ $P \rightarrow Principal$ $R \rightarrow Rate$ $7020 = \frac{15600 \times R \times 3}{100}$ R = 15% R + 5 = 20%C.I. = 15600 $\left[\left(1 + \frac{20}{100} \right)^2 - 1 \right]$ C.I. = $15600 \left[\frac{36}{25} - 1 \right]$ $= 15600 \times \frac{11}{25} = \text{Rs.} 6864$

S106.Ans(a)

Sol. Total students in a section = students failed in both + students passed in half yearly + students passes in annual - students passed in both total students in section B = 15+30+25-20=50

S107. Ans(d)

Sol.

students failed in both exams in all sections = 10 + 15 + 20 = 45Students passed in both exams in all sections = 20 + 20 + 25 = 65Required % = $\frac{65-45}{45} \times 100 = 44\frac{4}{9}\%$

S108. Ans(c)

Sol.

students passed in only one examination in all sections =(30+40-20)+(30+25-20)+(35+30-25)=125Required average = $\frac{125}{2}$ = 41.67

S109. Ans(e)

Sol. Total students in section C = 20 + 35 + 30 - 25 = 60Required $\% = \frac{20}{60} \times 100 = 33.33\%$

S110. Ans(b)

Sol.

students in section A = 10 + 30 + 40 - 20 = 60 Students in section B = 15 + 30 + 25 - 20 = 50Students in section C = 20 + 35 + 30 - 25 = 60Section A & C have same no. of students

S111. Ans(b)

Sol.

Items purchased by females from store A on Wednesday and Thursday together $=335 \times \frac{40}{100} + 360 \times \frac{60}{100}$ =350total items purchased by males from store B on Thursday and Friday together $= 380 \times \frac{75}{100} + 275 \times \frac{60}{100}$

Required percentage = $\frac{450-350}{450} \times 100$

S112. Ans(d)

Sol.

total number of items purchased by males from store A on Tuesday and Wednesday together

$$\frac{280 \times \frac{55}{100}}{100} + 335 \times \frac{60}{100}}{355}$$

total numbers of items purchased by females from store B on Thursday and Friday together

 $= 380 \times \frac{25}{100} + 275 \times \frac{40}{100}$ Required ratio= $\frac{355}{205}$ =71:41

S113. Ans(e)

Sol.

Total number of items purchased by males from store B

on all the given days together = $320 \times \frac{70}{100} + 440 \times \frac{35}{100} + 270 \times \frac{20}{100} + 380 \times \frac{75}{100} + 275 \times \frac{60}{100}$ =224+154+54+285+165 =882

S114. Ans(c)

Sol.

Total Items purchased on Thursday and Friday together of store A =360+420 =780Total items purchased on Wednesday and Thursday together of store B =270+380 Required percentage= $\frac{780}{650} \times 100$ =120%





S115. Ans(b)

Sol.

Total items purchased from store A on Saturday= $335 \times \frac{120}{100}$ =402 Total items purchased from store B on Saturday= $270 \times \frac{130}{100}$ =351 Total items purchased from Store A and Store B together on Saturday = 402+351 =753

S116. Ans(c)

Sol.

Total no. of magazines distributed by companies Q, R and T among their distributors

 $=2400 \times \frac{60}{100} + 3800 \times \frac{75}{100} + 4500 \times \frac{70}{100}$ =1440+ 2850+ 3150 =7440 Required average = $\frac{7440}{3}$ =2480

S117. Ans.(d) Sol.

Total number of distributors of magazines of company $Q = \frac{2400 \times \frac{400}{40}}{40} = 36$ Total number of distributors of magazines of company $T = \frac{4500 \times \frac{70}{100}}{75} = 42$ Total number of distributors of magazines of company Q and T together= 36+42 =78

S118. Ans.(b)

Sol.

total number of magazines distributed among the distributors of company R =3800× $\frac{75}{100}$ =2850 total number of magazines distributed among the distributors of company T =4500× $\frac{70}{100}$ =3150 Required ratio = $\frac{2850}{3150}$ = 19: 21

S119. Ans(e)

Sol.

Total number of magazines distributed among the distributors of company P =5600× $\frac{80}{100}$ =4480 Total number of magazines distributed among the distributors of company Q =2400× $\frac{60}{100}$ =1440 Total number of magazines distributed among the distributors of company R =3800× $\frac{75}{100}$ =2850 Total number of magazines distributed among the distributors of company S =2500× $\frac{68}{100}$ =1700 Total number of magazines distributed among the distributors of company T =4500× $\frac{70}{100}$ =3150 Required average = $\frac{4480+1440+2850+1700+3150}{5}$ = 2724



S120. Ans(b)

Sol.

Total no. of distributors of magazines sold by companies P and Q together

$$=\frac{5600\times\frac{100}{100}}{64}+\frac{2400\times\frac{100}{100}}{40}=70+36=106$$

Total no. of distributors of magazines sold by companies R and T together $=\frac{3800 \times \frac{75}{100}}{95} + \frac{4500 \times \frac{70}{100}}{75} = 30 + 42 = 72$

Required difference =106 - 72 = 34

S121. Ans.(e) Sol. Series is +2², +(2+4)², +(6+4)², +(10+4)² 338 + 18² = 662

S122. Ans.(a) Sol. +2, -3, +5, -7, +11 ⇒ 84 + 11 = 95

S123. Ans.(b) Sol. $+2^2, -3^2, +4^2, -5^2, +6^2...$ $\Rightarrow 63 + 36 = 99$



S125. Ans.(e) Sol. Series is ×3, ×5, ×7, ×9 ⇒ 735 × 9 = 6615

S126. Ans.(b) Sol. $(1511 - 1) \div 5 = 302$ $(302 - 2) \div 4 = 75$ $(75 - 3) \div 3 = 24$ $(24 - 4) \div 2 = 10$ $(10 - 5) \div 1 = 5$



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S138. Ans.(d)



S139. Ans.(e)





S140. Ans.(c)



S141. Ans(b)

Sol.

Discount percent given on Quant book by store $B = \frac{1}{2} \times 20\% = 10\%$

Table shows discount percent given by three different stores on three different books.

Store and book	А	В	С
name			
Quant	20%	10%	15%
Reasoning		15%	20%
English	15%	20%	

Discount given by store A on reasoning book = $10 \times \frac{120}{100} = 12\%$ M.R.P. of book = $880 \times \frac{100}{88} = Rs.1000$

S142. Ans.(d)

Sol.

Discount percent given on Quant book by store $B = \frac{1}{2} \times 20\% = 10\%$

Table shows discount percent given by three different stores on three different books.

Store and book	А	В	С
name			
Quant	20%	10%	15%
Reasoning		15%	20%
English	15%	20%	

let M.R.P. of each book = Rs.100a ATQ $100a \times \frac{80}{100} + 100a \times \frac{90}{100} = 510$ 170a = 510a = 3So, 100a = Rs.300

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S143. Ans.(a)

Sol.

Discount percent given on Quant book by store $B = \frac{1}{2} \times 20\% = 10\%$

Table shows discount percent given by three different stores on three different books.

Store and book	А	В	С
name			
Quant	20%	10%	15%
Reasoning		15%	20%
English	15%	20%	

let cost price of a reasoning book for store C = Rs. 100y Market price of a book for store C = $100y \times \frac{150}{100} = Rs. 150y$ Selling price of book for store C = $150y \times \frac{80}{100} = Rs. 120y$ Required profit percent = $\frac{120y-100y}{100y} \times 100 = 20\%$

S144. Ans.(d)

Sol.

Discount percent given on Quant book by store $B = \frac{1}{2} \times 20\% = 10\%$

Table shows discount percent given by three different stores on three different books.

Store and book	Α	В	С
name			
Quant	20%	10%	15%
Reasoning		15%	20%
English	15%	20%	

let M.R.P. of each book = Rs.100c

Required ratio =
$$\frac{1}{3} \times \left(100c \times \frac{20}{100} + 100c \times \frac{20}{100} + 100c \times \frac{20}{100}\right) : 100c$$

= 20 : 100
= 1:5

S145. Ans.(a)

Sol.

Discount percent given on Quant book by store $B = \frac{1}{2} \times 20\% = 10\%$

Table shows discount percent given by three different stores on three different books.

Store and Sook	11	Б	
name			
Quant	20%	10%	15%
Reasoning		15%	20%
English	15%	20%	

Selling price of reasoning book for store C = $\frac{170}{100-15} \times (100-20)$ = Rs. 160

S146. Ans.(b)

Sol.

required percentage = $\frac{8500}{13600} \times 100 = 62.5\%$

S147. Ans.(b) Sol.

No. of defective article manufactured by firm S = $\frac{15000}{75} \times 2 = 400$ Required ratio = 13600: 400 = 34:1









S148. Ans.(d)

Sol.

Average no. of non-defective article manufactured by firm Q and R = $\frac{1}{2} \times (8500 + 13500) = 11000$ Required percentage = $\frac{11000}{15000} \times 100 = 73\frac{1}{2}\%$

S149. Ans.(c)

Sol.

 $30\% = \frac{3}{10} and 30 \frac{10}{13}\% = \frac{4}{13}$ Let total no. of article manufactured by firm P and R are 10x and 13y respectively. So, non-defective article manufactured by firm P = $10x \times \frac{7}{10} = 7x$ Non-defective article manufactured by firm R = $13y \times \frac{9}{13} = 9y$ ATQ defective article manufactured by firm P = $\frac{7000}{7x} \times 3x = 3000$ defective article manufactured by firm R = $\frac{13500}{9y} \times 4y = 6000$ required percentage = $\frac{(6000-3000)}{6000} \times 100 = 50\%$

S150. Ans.(b)

Sol.

Required ratio = (8500 + 13500): (7000 + 15000) = 1:1

S151. Ans.(b)

Sol.

1 day wage of 4 men & 3 children = $\frac{600}{3}$ = Rs. 200 Let efficiency of a man & a child be M & C units/day respectively Equating total work, $(4M + 3C) \times 3 = M \times 15$ M: C = 3:1 (this is also ratio of daily wage)

Daily wage of a man $=\frac{3}{15} \times 200 = Rs.40$

S152. Ans.(d)

Sol.

ATQ, $\frac{50}{100}y - \frac{10}{100}x = 170$ $\frac{40}{100}x = \frac{30}{100}y \Rightarrow \frac{x}{y} = \frac{3}{4}$ $\frac{50}{100} \times \frac{4}{3}x - \frac{10}{100}x = 170$ $x = 300 \Rightarrow y = 400$ Required answer = x + y = 300 + 400 = 700

S153. Ans.(d)

Sol.

Let ratio of P's investment and Q's investment be x:y Therefore, profit will be shared in the ratio 4x:5y

Given, $\frac{4x}{4x+5y} \times 75000 = 15000$ $\frac{4x}{4x+5y} = \frac{1}{5}$ 20x = 4x + 5y16x = 5yy : x = 16:5

S154. Ans.(c)

Sol.

let the smallest odd number be 'a' so next odd number be 'a+2' and so on 8th number = $a + (8 - 1) \times 2 = a + 14$ (using AP, nth term = a + (n-1)d) ATQ, $\frac{a+a+2+\dots+a+14}{8} = 10$ 8a + 56 = 80 (using sum of AP) $a = \frac{80 - 56}{8} = 3$ Since 'a' is smallest number, so smallest 4 numbers will be = 3, 5, 7, 9 Required average = $\frac{3+5+7+9}{4} = 6$

S155. Ans.(b)

Sol. Let efficiency of a man & a boy be M & B units/day respectively $5B \times 20 = 10M \times 8$ $\frac{M}{B} = \frac{5}{4}$ Total work = $(4 \times 5 + 4 \times 4) \times 3 = 108$ units Work done by 4 boys in 3 days = $4 \times 4 \times 3 = 48$ units Amount earned by boys for their contribution = $\frac{48}{108} \times 540 = Rs.240$

S156. Ans.(d) Sol. let maximum marks be x $\frac{56}{100}x - 10 = \frac{48}{100}x + 6$ x = 200Marks of Sanjay $= \frac{56}{100}x = 112$ Passing marks = 112 - 10 = 102Pass $\% = \frac{102}{200} \times 100 = 51\%$

S157. Ans.(d) Sol. Required number of ways= 7_{P_4} =7× 6×5=210 ways





S158. Ans.(a) Sol.

In basket, there are 8 red balls and 6 green balls Probability(both being either red or blue) = $\frac{8c_2 + 6c_2}{14c_2}$

 $=\frac{28+15}{91}=\frac{43}{91}$

S159. Ans.(d)

Sol.

side of square = $\sqrt{25} = 5 \ cm$ Since non-parallel sides are equal,



Height of trapezium = $\sqrt{5^2 - 3^2} = 4 \ cm$ Area of trapezium = $\frac{1}{2}(base1 + base2) \times height$ $\frac{1}{2} \times (4 + 10) \times 4 = 28 \ cm^2$

S160. Ans.(e)

Sol. let side of square be x cm $\frac{x^2}{10x} = \frac{4}{5}$ $x = 8 \ cm$ Diagonal of square = $\sqrt{2}x = 8\sqrt{2}$ cm

S161. Ans.(c)

Sol. amount received by Rohit = $4000 + \frac{4000 \times 10 \times 2}{100} = Rs. 4800$

S162. Ans.(e)

Sol.

interest amount received by Karan = $\frac{8000 \times 10 \times 2}{100} = Rs. 1600$ Interest amount received by Mahesh = $\frac{6000 \times 12 \times 4}{100} = Rs. 2880$ Required % = $\frac{2880 - 1600}{1600} \times 100 = 80\%$

S163. Ans.(d)

Sol.

total interest amount received by Anurag & Rohit together = $\frac{4000 \times 16 \times 4}{100} + \frac{4000 \times 10 \times 2}{100} = Rs.3360$

S164. Ans.(a)

Sol.

interest received by Karan (SI) = $\frac{8000 \times 10 \times 2}{100} = Rs. 1600$ Interest received by Karan (CI) = $8000 \left(1 + \frac{10}{100}\right)^2 - 8000 = Rs. 1680$ Required value = 1680 - 1600 = Rs. 80

S165. Ans.(e)

Sol.

Interest received by Karan = $\frac{8000 \times 10 \times 2}{100} = Rs. 1600$ Interest received by Anurag = $\frac{4000 \times 16 \times 4}{100} = Rs. 2560$ Interest received by Mahesh = $\frac{6000 \times 12 \times 4}{100} = Rs. 2880$ Interest received by Rohit = $\frac{4000 \times 10 \times 2}{100} = Rs. 800$ Clearly, Mahesh had received highest interest

S166. Ans.(c)

Sol.

Total marks scored by lokesh in physics, chemistry and maths together = $150 \times \frac{80}{100} + 150 \times \frac{76}{100} + 150 \times \frac{84}{100}$ = 120 + 114 + 126= 360Total marks scored by Amit in physics, chemistry and maths together = $150 \times \frac{70}{100} + 150 \times \frac{66}{100} + 150 \times \frac{58}{100}$ = 105 + 99 + 87= 291

Required difference =360 - 291 =69

S167. Ans.(d) Sol.

Total marks scored by Siddharth in all the subjects = $150 \times \frac{48}{100} + 150 \times \frac{72}{100} + 150 \times \frac{88}{100} + 100 \times \frac{70}{100} + 100 \times \frac{86}{100}$ =72 + 108 + 132 + 70 + 86=468overall percentage marks scored by Siddharth= $\frac{468}{650} \times 100$ = 72%

S168. Ans.(a)

Sol. Total marks scored by Ritesh in all the subjects $=150 \times \frac{76}{100} + 150 \times \frac{82}{100} + 150 \times \frac{64}{100} + 100 \times \frac{72}{100} + 100 \times \frac{94}{100}$ =114 + 123 + 96 + 72 + 94 =499Total marks scored by Aakash in all the subjects $=150 \times \frac{50}{100} + 150 \times \frac{64}{100} + 150 \times \frac{78}{100} + 100 \times \frac{65}{100} + 100 \times \frac{75}{100}$ =75 + 96 + 117 + 65 + 75 =428Required difference =499 - 428 =71







S169. Ans.(c)

Sol.

marks scored in physics subject by all the given five students together $=150 \times \frac{66}{100} + 150 \times \frac{64}{100} + 150 \times \frac{72}{100} + 150 \times \frac{76}{100} + 150 \times \frac{82}{100}$ =99+96+108+114+123 =540 Average marks scored in physics= $\frac{540}{5}$ =108

S170. Ans.(b)

Sol.

Total marks scored by Aakash, Siddharth and Lokesh in English $=100 \times \frac{65}{100} + 100 \times \frac{70}{100} + 100 \times \frac{75}{100}$ =65+70+7 =210 Total marks scored by Amit, Aakash and Lokesh in maths = $150 \times \frac{70}{100} + 150 \times \frac{50}{100} + 150 \times \frac{80}{100}$ =105+75+120300 Required percentage $=\frac{210}{300} \times 100$ =70%

S171. Ans.(d) Sol.

total watches manufactured by Casio, Titan & Sonata = $\frac{20+15+25}{100} \times 1000 = 600$ required average = $\frac{600}{3}$ = 200

S172. Ans.(c)

Sol. required ratio = $\frac{10+25}{100} \times 1000 : \frac{20+20}{100} \times 1000 = 7:8$

S173. Ans.(b)

Sol. watches manufactured of Sonata = $\frac{25}{100} \times 1000 = 250$ Watches manufactured of Rado = $\frac{10}{100} \times 1000 = 100$ Required % = $\frac{250-100}{100} \times 100 = 150\%$

S174. Ans.(e)

Sol.

in next year

No. of Titan watches manufactured = $\frac{110}{100} \times \frac{15}{100} \times 1000 = 165$ No. of Timex watches manufactured = $\frac{90}{100} \times \frac{10}{100} \times 1000 = 90$ Required difference = 165 - 90 = 75

S175. Ans.(b) Sol.

Average no. of watches manufactured = $\frac{1000}{6}$ = 166.67 Watches manufactured Casio = $\frac{20}{100} \times 1000 = 200$ $Titan = \frac{100}{100} \times 1000 = 150$ Sonata = $\frac{25}{100} \times 1000 = 250$ Timex = $\frac{10}{100} \times 1000 = 100$ Fossil = $\frac{20}{100} \times 1000 = 200$ Rado = $\frac{10}{100} \times 1000 = 100$ Required answer = Casio, Sonata, Fossil = 3

S176. Ans.(c)

Sol.

Total number of student from engineering and architecture department together $=5400 \times \frac{25}{100} + 5400 \times \frac{18}{100} = 1350 + 972$ Total students from the pharmacy and BSc department together $=5400 \times \frac{15}{100} + 5400 \times \frac{12}{100}$ =810+648=1458 Required ratio= $\frac{2322}{1458}$ =43:27

S177. Ans.(d)

Sol.

total number of females in pharmacy and finearts together $= 5400 \times \frac{15}{100} \times \frac{2}{3} + 5400 \times \frac{10}{100} \times \frac{2}{5}$ =756

S178. Ans.(a)

Sol.

central angle of the total students of architecture departments of the university $=18 \times \frac{360}{100} = 64.8^{\circ}$

S179. Ans.(b)

Sol.

Total number of students from MBBS and Finearts department together $=5400 \times \frac{20}{100} + 5400 \times \frac{10}{100} = 1080 + 540$ Total failed student in the final semester exam from MBBS and Finearts dept $=5400 \times \frac{20}{100} \times \frac{20}{100} + 5400 \times \frac{10}{100} \times \frac{15}{100}$ total number of student who passed the semester from MBBS and Finearts dept =1620 - 297 =1323





S180. Ans.(e)

Sol.

Total students from engineering and pharmacy department together= $5400 \times \frac{25}{100} + 5400 \times \frac{15}{100}$ =1350+810 =2160 total students from MBBS and Fine arts department together = $5400 \times \frac{20}{100} + 5400 \times \frac{10}{100}$ =1080+540 =1620 Required percentage= $\frac{2160}{1620} \times 100$ 134 % (approx.)

S181. Ans.(b)

Sol.

Total spectators of Badminton and kabaddi together= $14000 \times \frac{23}{100} + 14000 \times \frac{7}{100}$ =3220+980 =4200 Total spectators of cricket and hockey together= $14000 \times \frac{22}{100} + 14000 \times \frac{18}{100}$ =3080+2520 =5600 Required percentage= $\frac{4200}{5600} \times 100$ =75%

S182. Ans.(c)

Sol.

Total spectators of Football and tennis together= $14000 \times \frac{16}{100} + 14000 \times \frac{14}{100}$ =2240+1960 =4200 Total spectators of Cricket = $14000 \times \frac{22}{100} = 3080$ Required ratio = $\frac{4200}{3080}$ =15:11

S183. Ans.(e)

Sol.

central angle of total spectators of badminton and tennis together =(23+14) $\times \frac{360}{100}$ =133.2°

S184. Ans.(d)

Sol.

Total male spectators of hockey = $14000 \times \frac{18}{100} \times \frac{9}{15}$ =1512 Total female spectators of hockey = $14000 \times \frac{18}{100} \times \frac{6}{15}$ =1008 Required difference=1512-1008 =504 S185. Ans.(b) Sol. Total spectators of cricket and football together= $14000 \times \frac{22}{100} + 14000 \times \frac{16}{100}$ =3080+2240 =5320 Total spectators of badminton and tennis together= $14000 \times \frac{23}{100} + 14000 \times \frac{14}{100}$ =3220+1960 =5180 Required difference=5320 -5180 =140 S186. Ans.(d) Sol. I. $2x^2 - 17x + 36 = 0$ $2x^2 - 8x - 9x + 36 = 0$ 2x(x-4) - 9(x-4) = 0(2x - 9)(x - 4) = 0 $x = \frac{9}{2}, 4$ II. $2y^2 - 19y + 45 = 0$ $2y^2 - 10y - 9y + 45 = 0$ 2y (y- 5) - 9 (y- 5) = 0 (2y-9) (y-5) = 0 $y = \frac{9}{7}, 5$ $\therefore y \ge x$ S187. Ans.(e) Sol. $I. x^2 - 25x + 154 = 0$ $x^{2} - 14x - 11x + 154 = 0$ x (x - 14) - 11 (x- 14) = 0 (x - 11)(x - 14) = 0x = 11, 14 II. $y^2 - 28y + 195 = 0$ $y^2 - 13y - 15y + 195 = 0$ y (y-13) - 15 (y -13) =0 (y-13)(y-15)=0y = 13, 15 ∴ no relation S188. Ans.(a) Sol. $I.\frac{10}{x} - \frac{24}{x^2} = 1$ Multiplying by x² on both side $10x - 24 = x^2$

 $10x - 24 = x^{2}$ $x^{2} - 10x + 24 = 0$ $x^{2} - 6x - 4x + 24 = 0$ x(x - 6) - 4 (x - 6) = 0 (x - 4) (x - 6) = 0 x = 4, 6II. $\frac{5}{y} - \frac{6}{y^{2}} = 1$





Multiplying by y² on both side S192. Ans (e) $5v - 6 = v^2$ Sol. $y^2 - 5y + 6 = 0$ I. $(x-2)^2 = 4$ $y^2 - 3y - 2y + 6 = 0$ $x - 2 = \pm 2$ y (y-3) - 2 (y-3) = 0 x = 0.4(y - 2) (y - 3) = 0 II. $y^2 - 2y + 1 = 0$ y = 2, 3 $(y-1)^2 = 0$ ∴ x > y v = 1∴ no relation can be obtained. S189. Ans.(d) Sol. $I. 3x^2 - 10x - 8 = 0$ S193. Ans (e) $3x^2 - 12x + 2x - 8 = 0$ Sol. 3x(x-4) + 2(x-4) = 0I.3x + 2y = 5(3x+2)(x-4)=0II. 4x + 6y = 10 $x = -\frac{2}{3}, 4$ Applying $2 \times I$ and equate with II II. $2y^2 - 23y + 60 = 0$ x = y = 1 $2y^2 - 8y - 15y + 60 = 0$ $\therefore x = y$ 2y(y-4)-15(y-4)=0(y-4) (2y-15) = 0 $y = 4, \frac{15}{2}$ **S194**. Ans (d) Sol. ∴ y ≥ x $I_{x}^{2} - 4x - 21 = 0$ $x^2 - 7x + 3x - 21 = 0$ S190. Ans.(a) x(x-7) + 3(x-7) = 0Sol. (x+3)(x-7) = 0I. 12x - 16y + 16 = 0x = -3.73x - 4y + 4 = 0...(i) II. $y^2 - 16y + 63 = 0$ II. 17y-13x = 12 ...(ii) $y^2 - 7y - 9y + 63 = 0$ By multiplying equation (i) by 13 & equation (ii) by 3 y(y-7) - 9(y-7) = 039x - 52y = -52 -39x + 51y = 36 (y-7)(y-9) = 0y = 16 & x = 20 v = 7.9∴ x > y So, $v \ge x$ S191. Ans (c) S195. Ans (a) Sol. Sol. I. $4x^2 + 4x + 1 = 0$ I. 2x = 3y - 1 $(2x+1)^2 = 0$ II. x + y = 7 $x = -\frac{1}{2}$ Applying $2 \times II - I$ II. $9y^2 + 6y + 1 = 0$ 2x + 2y - 2x = 14 - 3y + 1 $(3y+1)^2 = 0$ 5y = 15y = y = 3∴ x<v And x = 4 $\therefore x > y$



S196. Ans.(d) Sol.

$I.4x^2 + 6x - 2x - 3 = 0$
2x(2x+3) - 1(2x+3) = 0
(2x-1)(2x+3) = 0
So, $x = \frac{1}{2}, -\frac{3}{2}$
II. $4y^2 - 6y - 2y + 3 = 0$
2y(2y-3) - 1(2y-3) = 0
(2y-1)(2y-3) = 0
$y = \frac{1}{2}, \frac{3}{2}$
So, $y \ge x$

S197. Ans(c)

Sol.

I. 11x - 13y + 48 = 0II. 13y + 11x = 290Adding I and II 22x + 48 = 290 $x = \frac{242}{22}$ x = 11Put x = 11 in I 121 - 13y + 48 = 0 13y = 169 y = 13So, y > x

S198. Ans(a)

Sol. I. 2x + 3xy = 207II. $15x = \frac{945}{y}$ From II xy = 63So, 3xy = 189Put value of 3xy in I 2x + 189 = 207 $x = \frac{18}{2}$ x = 9 y = 7So, x > y S199. Ans(e) Sol. I. $x^2 - 14x + 33 = 0$ $x^2 - 11x - 3x + 33 = 0$ x(x - 11) - 3(x - 11) = 0 (x - 11)(x - 3) = 0 x = 3, 11II. $y^2 - 15y + 44 = 0$ $y^2 - 11y - 4y + 44 = 0$ y(y - 11) - 4(y - 11) = 0 (y - 4)(y - 11) = 0y = 4, 11

So, no relation can be obtained between x and y.

S200. Ans(e)

Sol. I. $8x^2 + 28x - 6x - 21 = 0$ 4x(2x + 7) - 3(2x + 7) = 0 (4x - 3)(2x + 7) = 0 $x = -\frac{7}{2}, \frac{3}{4}$ II. $18y^2 + 42y - 15y - 35 = 0$ 6y(3y + 7) - 5(3y + 7) = 0 (6y - 5)(3y + 7) = 0 $y = -\frac{7}{3}, \frac{5}{6}$

So, no relation can be obtained between x and y.

