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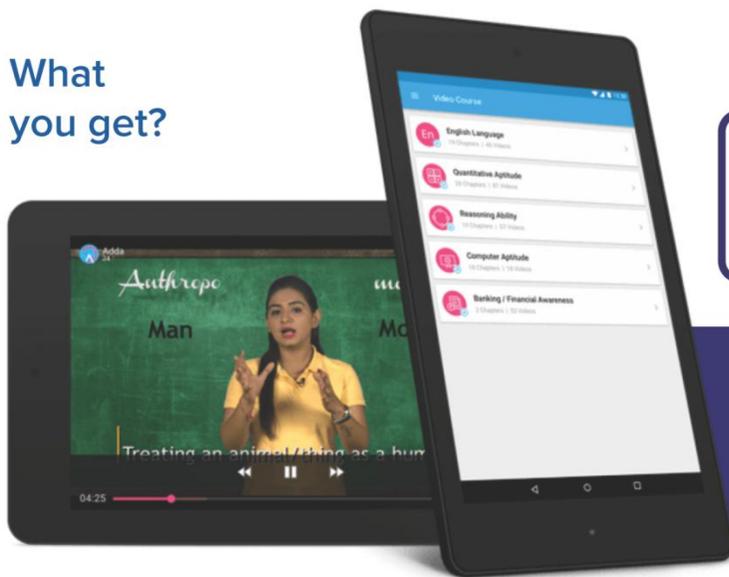
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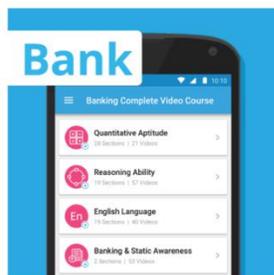
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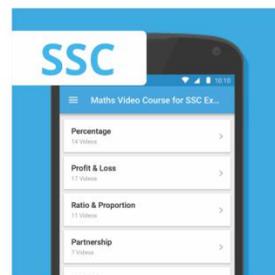
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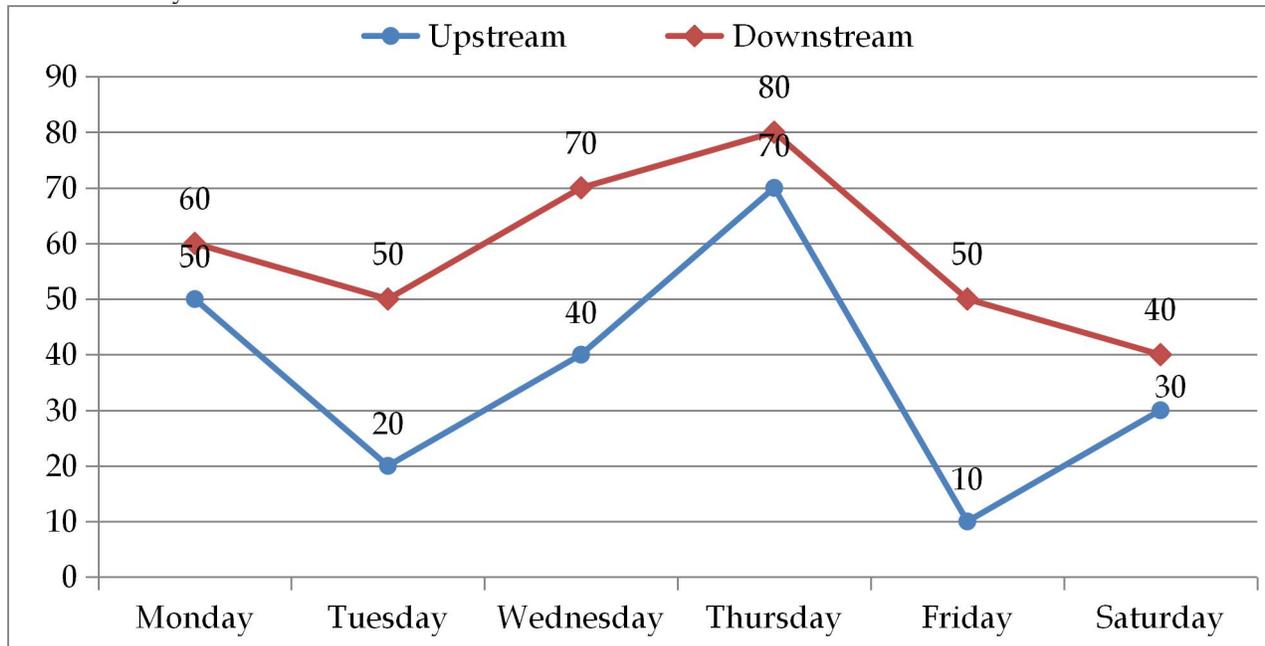


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(Directions 1-5): The line graph given below shows the upstream and downstream speeds of A on different week days.



Q1. On Sunday, A rows at a speed that is 15% more than his speed on Saturday. River flows at a speed 10% slower than Friday. If A rows the same distance up and down then what is the average speed throughout his total journey on Sunday?

- (a) 3.22 km/hr
- (b) 3.51 km/hr
- (c) 1.82 km/hr
- (d) 5.62 km/hr
- (e) None of these

Q2. If A travels a certain distance on Wednesday and takes 9 hours more to return to the initial point. How far was the place he travelled to?

- (a) $5\frac{1}{2}$ km
- (b) $7\frac{1}{3}$ km
- (c) $9\frac{1}{3}$ km
- (d) $6\frac{1}{2}$ km
- (e) None of these

Q3. A travels to a certain place on Thursday and returns back to the initial point in a total of $22\frac{2}{9}$ hours. How far was the place from the initial point?

- (a) 48.25 km
- (b) 98.99 km
- (c) 22.29 km
- (d) 82.95 km
- (e) None of these



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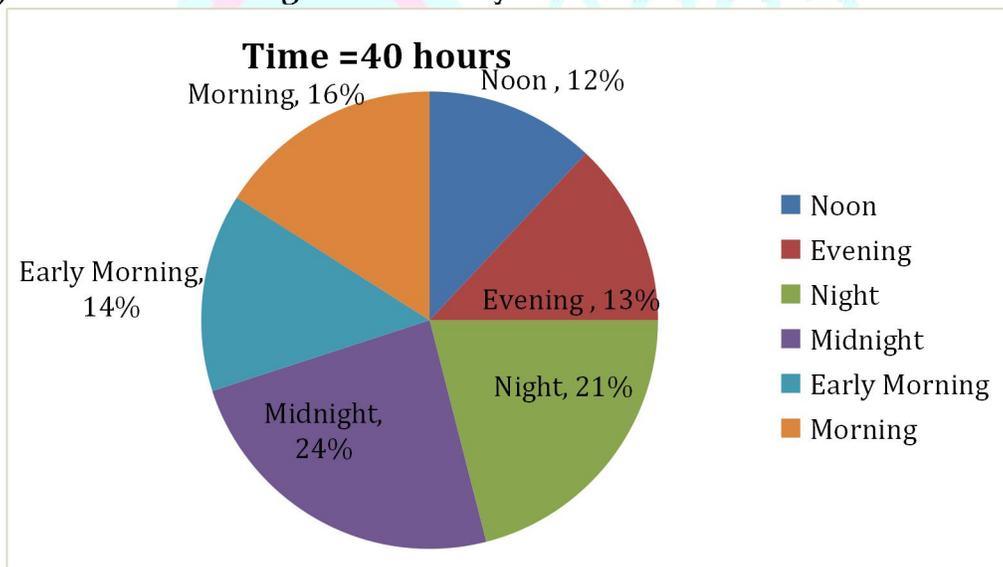
Q4. Due to some climatic change on Monday, the downstream speed is $2\frac{1}{3}$ times the previous downstream speed on Monday whereas the upstream speed was reduced by 20% find A's average speed if he travels the same distance up and down?

- (a) 4.66 km/hr
- (b) 5.22 km/hr
- (c) 6.22 km/hr
- (d) 7.66 km/hr
- (e) None of these

Q5. Calculate the ratio of respective speeds of A in still water on Tuesday and that of stream on Saturday.

- (a) 7 : 2
- (b) 7 : 1
- (c) 1 : 7
- (d) 2 : 7
- (e) None of these

Directions (6-10): Given below is a pie chart. This pie chart shows the percentage distribution of time (in hours) in six different fragments of a day.



Q6. A motorboat covers a certain distance downstream in evening and returns covering the same distance upstream on the next day in early morning. If the speed of the stream is 6 km/hr, then what was the speed of motorboat in still water?

- (a) 56 km/h
- (b) 162 km/h
- (c) 146 km/h
- (d) 156 km/h
- (e) None of these

Q7. A rows a boat in still water at 8 km/hr. If speed of water current is $\frac{3}{4}$ th of the boat, and he rows downstream in noon and returns travelling upstream in mid-night, then what was the distance between the initial point and the place he travelled to?

- (a) 9.6 km
- (b) 14.4 km
- (c) 25.2 km
- (d) 28 km
- (e) None of these

Q8. A boat travels 36 km downstream in the morning and returns against the current at night. The speed of water current is what percent of the speed of boat in still water?

- (a) 9.91%
- (b) 5.62%
- (c) 4.95%
- (d) 6.76%
- (e) None of these

Q9. A man can row at a speed of 5km/h in still water and the speed of water current is 2 km/h. If he rows to a place during night and returns in midnight, and he has to pay Rs. 11 per kilometer to row through the river, then what is the amount that he pays?

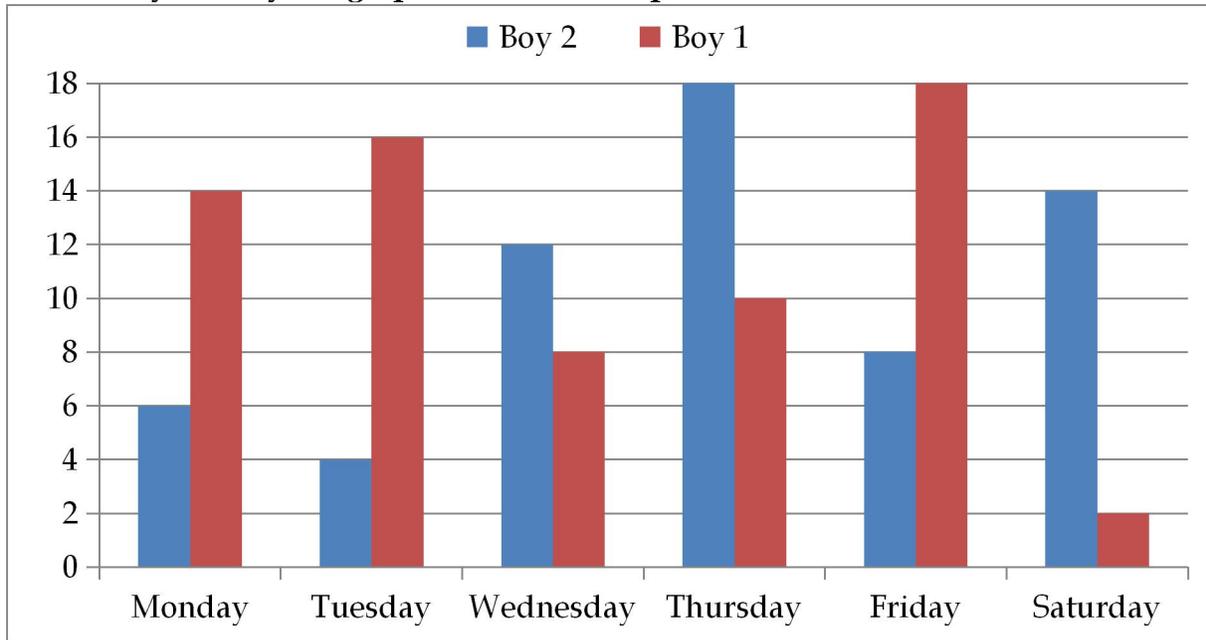
- (a) Rs. 415.8
- (b) Rs. 37.8
- (c) Rs. 96.6
- (d) Rs. 84.6
- (e) None of these

Q10. The ratio of the speed of the boat to that of current of water is 42 : 5. If the boat goes downstream during early morning, then it will come back in?

- (a) 8.99 h
- (b) 7.11 h
- (c) 9.88 h
- (d) 6.12 h
- (e) None of these



Directions (11-15): The bar-graph given below shows the speed (in km/h) of Boy 1 and Boy 2 on different week days. Study the graph & answer the questions based on it.



Q11. If the speed of the current on Thursday is 5 km/h, then what is the ratio of the downstream speed of B₁ to the upstream speed of B₂.

- (a) 13 : 14
- (b) 14 : 13
- (c) 15 : 13
- (d) 13 : 15
- (e) None of these

Q12. What is the total time taken by B₁ on Monday and B₂ on Wednesday if they both swim through of distance of 10 km upstream.

- (a) 2.82 h
- (b) 0.24 h
- (c) 0.44 h
- (d) 1.54 h
- (e) None of these

Q13. If B₁ and B₂ get into a race on Wednesday. B₁ has to swim downstream through a river that flows with a speed of $3\frac{2}{4}$ km/h and B₂ has to swim against the current through a river that flows with a speed of $1\frac{1}{6}$ km/h. The winner wins the race by how much time if the distance to be covered is 15 kms.

- (a) 8.70 minutes
- (b) 18.70 minutes
- (c) 9.70 minutes
- (d) 19.70 minutes
- (e) None of these

Q14. If B_1 and B_2 are being charged 73 Rs. per km to cover a distance in a river that flows with a speed of 3 km/h. If B_2 rows downstream on Tuesday and B_1 rows upstream on Friday, then how much do they have to pay if they row for 4 continuous hours.

- (a) Rs. 8,864
- (b) Rs. 7, 924
- (c) Rs. 6,424
- (d) Rs. 8,746
- (e) None of these

Q15. If the speed of B_1 and B_2 increase by 80% and decrease by 20% respectively on Sunday when compared to their speed on Saturday. If they both swim for 5 continuous hours on Sunday. Then the distance that B_1 covers is what percent of the distance that B_2 covers?

- (a) 16.24%
- (b) 32.14%
- (c) 14.00%
- (d) 38.12%
- (e) None of these

(Directions 16-20): Given below is table which shows the number of people who fall under five different categories and the number of days & hours in which they finish their work.

	No. of people	Days	Hours (h)
Men	x	60	—
Women	5	8	7
Boys	y	55	—
Girls	12	4	—
Children	z	9	—

Q16. If there were 8 more men, the work could have been completed in 10 days less. Similarly, if there were 6 more boys, their work could be finished in 11 days. Find $x : y$.

- (a) 40:29
- (b) 5:3
- (c) 19:45
- (d) 9:20
- (e) None of these

Q17. 5 of the children are on leave and the work is completed in 12 days. Also, girls are asked to complete 8 times the work in half the time. So, the new number of girls required to finish the work is what percent of z?

- (a) 840%
- (b) 780%
- (c) 960%
- (d) 480%
- (e) None of these



IT OFFICER
(SCALE -I)
2017-18

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Q18. If 2 more women join the women who are already working to complete the work in 4 days. If the manager pays them Rs. 81 for every hour, then, how much more does the manager need to pay per day now?

- (a) 910
- (b) 567
- (c) 810
- (d) 243
- (e) None of these

Q19. If the number of women is increased to 7 and their working hours are reduced to 5 h per day. Also, the number of children is doubled. The number of days in which women finish their work is what percent of the number of days in which children finish half of their work.

- (a) 355.55%
- (b) 485.66%
- (c) 295.22%
- (d) 286.33%
- (e) None of these

Q20. Men earn Rs. 2050 and boys earn Rs. 3225 for their work. What is the ratio of per day earnings of men to that of boys? 4

- (a) 327:890
- (b) 288:521
- (c) 451:774
- (d) 398:811
- (e) None of these



Directions (21-25): Given below is table which shows the total number of men, women and children who can finish 5 different works together is the given number of days.

Work	Men	Women	Children	Days
Painting a house	4	6	10	5
Building a wall	8	17	—	33
Road making	1	2	3	88
Typing a book	—	6	12	20
Ploughing a field	3	4	—	43

1 Men = 2 Women = 3 Children

Q21. A family in which a couple has 2 daughter and 3 sons is asked to paint a house and make a road. What is the ratio of the time they take to paint a house to the time taken by them to make a road?

- (a) 221:820
- (b) 155:792
- (c) 19:229
- (d) 21: 179
- (e) None of these

Q22. Two different families have to complete against each other to win a contest. A family that has 2 couples is asked to plough two fields whereas the other family that has a woman with her 5 children is asked to type 3 books. The family that wins completes its work in how many days before the family that loses the competition?

- (a) 86.28%
- (b) 32.54%
- (c) 21.02%
- (d) 42.54%
- (e) None of these

Q23. If a couple earns Rs. 5290 per day building a wall then how much do 2 couples earn per day doing the same work?

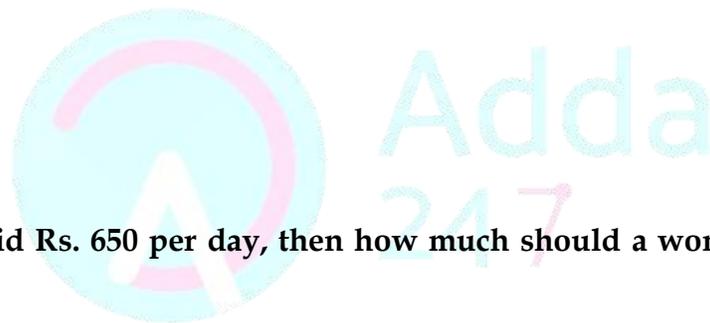
- (a) $50\frac{9}{26}$
- (b) $59\frac{8}{32}$
- (c) $45\frac{8}{32}$
- (d) $42\frac{9}{26}$
- (e) None of these

Q24. A man is being paid Rs. 650 per day, then how much should a woman be paid for the same work?

- (a) 995
- (b) 975
- (c) 325
- (d) 635
- (e) None of these

Q25. If a couple builds a wall and another ploughs two fields at the same time. The couple who finishes the work first completes the work in what percent days lesser than the couple that finishes it late?

- (a) 124.22%
- (b) 34.54%
- (c) 174.87%
- (d) 76.30%
- (e) None of these





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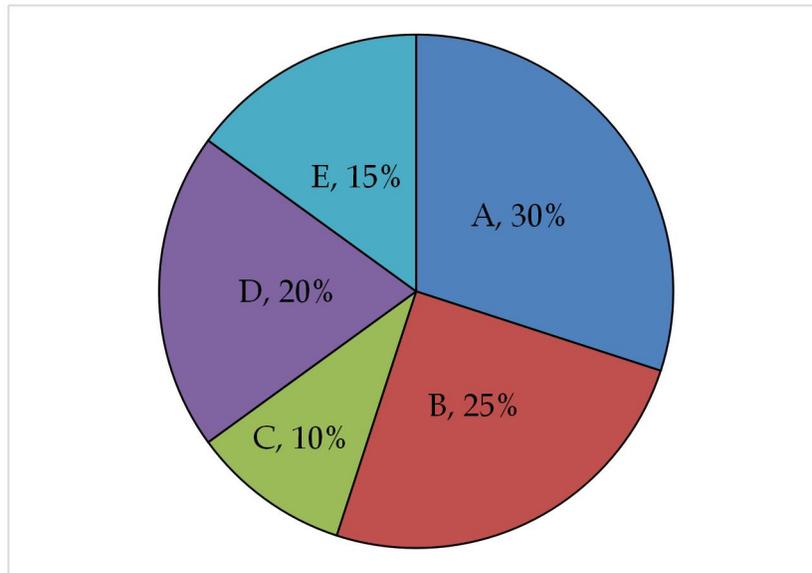
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Directions (26-30): Given below is a pie chart. This pie chart shows the percentage efficiency (out of 100) of different people named A, B, C, D and E.



Q26. If A, D and C can finish a piece of work in 10 days. What is the ratio of the no. of days that A takes to complete the work alone to the no. of days that D takes to complete it alone?

- (a) 5:31
- (b) 1:3
- (c) 3:1
- (d) 22:59
- (e) None of these

Q27. A can finish a piece of work in 48 days less than C. The number of days in which they finish the work together is what percent of the number of days that C takes to do it alone?

- (a) 125%
- (b) 75%
- (c) 25%
- (d) 55%
- (e) None of these

Q28. E can finish a piece of work in 45 days. If E, D and B work alternatively starting from E on day 1, D on day 2 and B on day 3 then, in how many days will they complete work working alternatively.

- (a) 13 days
- (b) 34 days
- (c) 24 days
- (d) 48 days
- (e) None of these

Q29. E can do $\frac{6}{7}$ th of a job in 24 days. Time taken by A is what percent more or less by E?

- (a) 25%
- (b) 50%
- (c) 75%
- (d) 22%
- (e) None of these

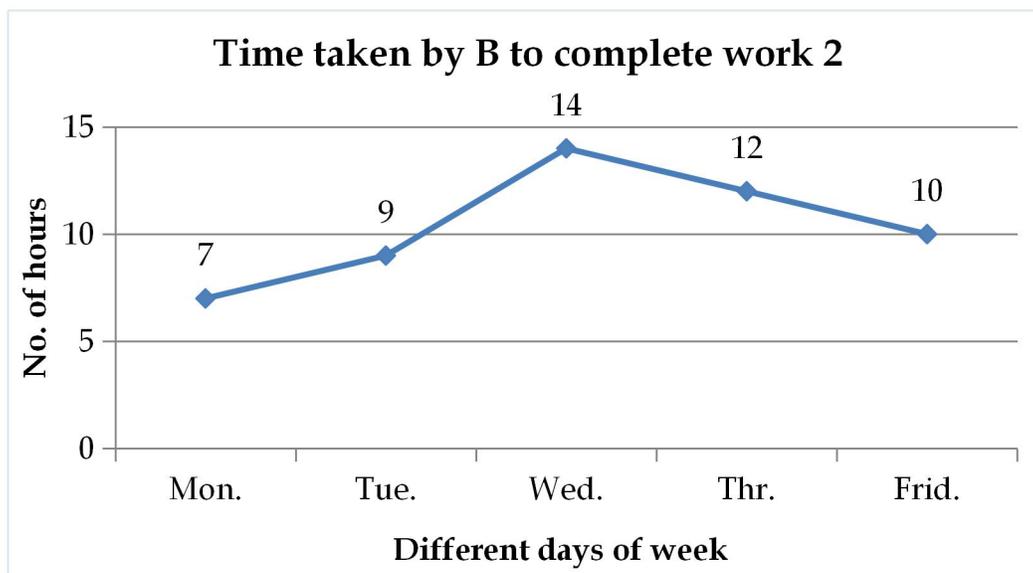
Q30. If C can finish a work in 8 days, what is the average of the no. of days that A, B, C, D & E take individually to finish the work?

- (a) 5.21
- (b) 6.84
- (c) 4.64
- (d) 6.22
- (e) None of these

Directions (31-35): Given below is table which shows the ratio of efficiency of both A and B on different days and total time taken by A and B to complete the work 1 if they complete whole work with the efficiency of different days.

There is also the line graph which shows the time taken by B to complete work 2 if it complete whole work with efficiency of different days.

Days	Efficiency of A & B	Time taken by both to complete work 1(hours)
Mon.	3 : 2	3
Tue.	3 : 2	4
Wed.	7 : 9	6
Thr.	8 : 9	5
Frid.	5 : 4	8



Note- The ratio of efficiency of A to B to do work 2 on different days is same as data given in the table for work 1.

Q31. A and B both started to complete work 1 on Tuesday but A left after working for 2 hours. Another person C whose efficiency is 60% of the efficiency of A (as of Tuesday) joins B. B leaves 2 hours before the completion of work then C alone finishes the remaining work. What is the total time in which work 1 is completed.

- (a) $\frac{105}{2}$ hours
 (b) $\frac{107}{13}$ hours
 (c) $\frac{108}{19}$ hours
 (d) $\frac{110}{19}$ hours
 (e) $\frac{110}{13}$ hours

Q32. If a part of work 2 completed by 4 women in 5 hours equals to the part of work 2 done by B on Wednesday in 7 hours and ratio of efficiency of a women and a children to complete work 2 is 5 : 3 then in what time work 2 will be completed by 3 children.

- (a) $\frac{100}{9}$ hours
 (b) $\frac{200}{9}$ hours
 (c) $\frac{100}{11}$ hours
 (d) $\frac{200}{11}$ hours
 (e) $\frac{150}{11}$ hours

Q33. x can complete a work in $(n - m)$ hours while y can complete the same work in $(n + m)$ hours where m is the time taken by A to complete work 2 on Tuesday and n is time taken by A to complete work 2 on Friday. Find the time in which x and y together can complete the work.

- (a) $\frac{3}{2}$ hours
 (b) $\frac{7}{4}$ hours
 (c) $\frac{7}{5}$ hours
 (d) $\frac{8}{3}$ hours
 (e) $\frac{9}{5}$ hours

Q34. A and B started to complete work 1, alternatively starting from A on first hour on Monday then time taken by A and B in completing 80% of work 1, alternatively on Monday is what percent more or less than time taken by A and B together to complete work 2 together on Friday.

- (a) 3%
 (b) 5%
 (c) 8%
 (d) 15%
 (e) 6%



AGRICULTURE FIELD OFFICER (SCALE -I) 2017-18

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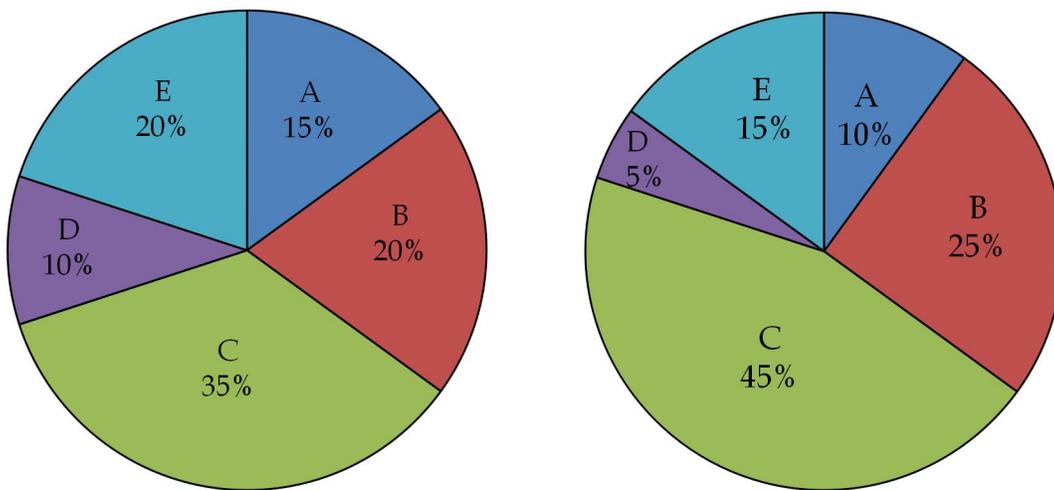
Only English Medium



Q35. If B with another person C works on work 2 on Friday for 2 hours than 80% of work 2 is completed then, time taken by C alone to finish work 2 is what percent to time taken by B to finish work 1 with efficiency of Friday –

- (a) $\frac{500}{27}\%$
- (b) $\frac{400}{13}\%$
- (c) $\frac{300}{17}\%$
- (d) $\frac{400}{21}\%$
- (e) $\frac{500}{21}\%$

Directions (36-40): Given below are two pie charts. Pie chart I shows the percentage distribution of milk in five vessels out of the total milk in these five vessels. Pie chart II shows the percentage distribution of water in same five vessels out of total quantity of water in these five vessels.



Note: Ratio of total milk to total water in these five containers is 2 : 1.

Q36. A shopkeeper pours the mixture of vessel A and B into another vessel F. Vessel F contains water only which is equal to 25% of water of vessel B. If shopkeeper professes to sell the whole mixture at the cost price of pure milk and cost price for shopkeeper is due to milk only, then find the percentage profit of shopkeeper in selling whole mixture. (2 Marks)

- (a) $58\frac{13}{14}\%$
- (b) $3\frac{13}{15}\%$
- (c) $54\frac{13}{15}\%$
- (d) $53\frac{13}{14}\%$
- (e) $55\frac{20}{21}\%$

Q37. Mixture of vessel A and C are mixed into another vessel M. If 62 liters of the mixture M is taken out and replaced with 17 L of water, the ratio of milk to water in M becomes 6 : 5. Find the quantity of milk in vessel B. (2 Marks)

- (a) 60 L
- (b) 20 L
- (c) 40 L
- (d) 45 L
- (e) 50 L

Q38. All the contents of mixture from all vessels except C is poured into bigger vessel and from vessel C, only 115 liters of mixture is taken out and poured into bigger vessel, then ratio of milk and water in bigger vessel becomes 9 : 4. Find the total quantity of water in all five vessels. (2 Marks)

- (a) 550 L
- (b) 500 L
- (c) 600 L
- (d) 650 L
- (e) 700 L

Q39. Some quantity of mixture from vessel D and E are taken out and ratio of quantity taken out from vessel D and E is in ratio 3 : 2, then find the ratio of milk and water of the final mixture. (2 Marks)

- (a) $\frac{211}{47}$
- (b) $\frac{202}{59}$
- (c) $\frac{220}{89}$
- (d) $\frac{112}{57}$
- (e) $\frac{212}{63}$

Q40. If total quantity of milk and water in vessel C is 115 L, then the quantity of milk and water in vessel B is how much more or less than quantity of milk and water in vessel E? (2 Marks)

- (a) $15\frac{2}{11}\%$
- (b) $14\frac{5}{7}\%$
- (c) $15\frac{5}{6}\%$
- (d) $18\frac{2}{11}\%$
- (e) $17\frac{2}{11}\%$



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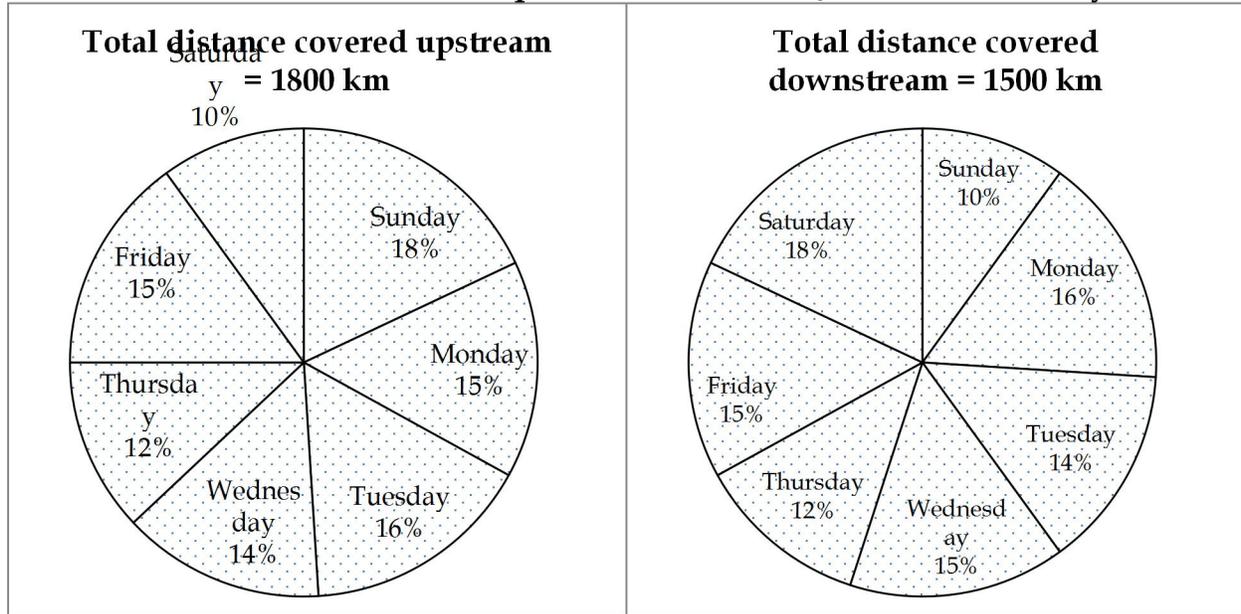
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Directions (41-45): Study the data given below and answer the following questions. The pie charts shown below shows the distance covered by a boat moving upstream and downstream in different days of a week. And the table shows the speed of stream in km/hr. in different days of a week.



Day	Speed of stream (km/hr)
Monday	2
Tuesday	3
Wednesday	—
Thursday	1
Friday	2
Saturday	—
Sunday	4

Q41. If the time taken by boat to travel upstream on Thursday is equal to the time taken by it to travel downstream on Monday and the speed of boat in still water on Monday is 16 kmph then find the speed of boat in still water on Thursday?

- (a) 16.2 kmph
- (b) 17.2 kmph
- (c) 15.4 kmph
- (d) 12.5 kmph
- (e) None of these

Q42. If the time taken by boat to travel upstream on Monday is $\frac{45}{11}$ hrs. more than the time taken by it to travel downstream on the same day, then find the speed of boat in still water on Monday ?

- (a) 22 kmph
- (b) 18 kmph
- (c) 20 kmph
- (d) 19 kmph
- (e) None of these

Q43. If the speed of boat in still water on Tuesday was 15 km/hr and the speed of boat in still water on Wednesday was $66\frac{2}{3}\%$ more than that of Tuesday and time taken to travel upstream on Wednesday is $\frac{9}{10}$ times than time taken by it to travel downstream on Tuesday, then find the speed of stream (in kmph) on Wednesday?

- (a) 1.5
- (b) 2.5
- (c) 2
- (d) 1
- (e) None of these

Q44. The speed of boat in still water on Saturday was 21 km/hr. and that on Sunday was $28\frac{4}{7}\%$ less than that on Saturday, if the time taken by boat to travel upstream on Saturday is $1\frac{3}{16}$ times than time taken to travel downstream on Sunday, then find the time taken by the boat to cover a distance of 57.6 km upstream when the speed of stream is same as that of Saturday.

- (a) 3 hrs.
- (b) 2 hrs.
- (c) 4 hrs.
- (d) 2.5 hrs.
- (e) None of these

Q45. If the time taken by boat to travel upstream on Sunday is 2 hours more than the time taken by it to travel downstream on Thursday and the speed of boat in still water on Thursday is 17 kmph, then find the upstream speed of boat on Sunday ?

- (a) 27 kmph
- (b) 22 kmph
- (c) 20 kmph
- (d) 25 kmph
- (e) None of these

Directions (46-50). There are five shop owners A, B, C, D and E. They are selling five different items given in the table.

In the table, Discount (as a percentage) is given on mark price of these five products by different sellers. Study the table and answer the following questions:

	Item I	Item II	Item III	Item IV
A	18%	32%	36%	—
B	22%	—	33%	40%
C	—	16%	14%	15%
D	28%	28%	16%	—
E	—	8%	—	7%

Note:

1. Some values are missing. You have to calculate these values as per data given in the questions.
2. Mark price of a particular item is same for all of the shop owners.

Q46. If the profit percentage of seller A after selling item II is $s\%$ and that of seller C for the same item is $(2s - 4)\%$ and the ratio of cost price of item II by seller A and seller C is 17 : 21 then find the value of s ?

- (a) 2
- (b) 3
- (c) 4
- (d) 5
- (e) none of these

Q47. For seller D, between the selling price of item II and that of item III is 420 Rs. if the sum of the mark price of item II and item III by the same seller is 6000 then the Mark price (in Rs.) of item II is what percent more/less than that of item III by the same seller ? (Selling price of item II is greater than that of item III)

- (a) 50%
- (b) 40%
- (c) 30%
- (d) 35%
- (e) 45%

Q48. Average SP of item II by seller A and B is Rs 3888, by seller B and C is Rs 3300. Find the SP (in Rs.) of item III by seller C.

- (a) 4536
- (b) 3656
- (c) 5430
- (d) 4150
- (e) none of these



Q49. If the selling price of item I and item III by seller E are in the ratio of 5 : 6. If the seller earned a profit of 25% which is Rs. 750 on item I and 20% on item III then find the total profit (in Rs.) by selling item I and item III together by the same seller ?

- (a) 750
- (b) 2000
- (c) 1750
- (d) 1250
- (e) 1500

Q50. Cost price of item III is 60 Rs. for all of the sellers and all of them marked the same product at $66\frac{2}{3}\%$ higher than the cost price, then to get a total profit of 80 Rs. by all of the five sellers after selling item III, what is the minimum discount should be provided by seller E on item III.

- (a) 21%
- (b) 19%
- (c) 17%
- (d) 25%
- (e) None of these

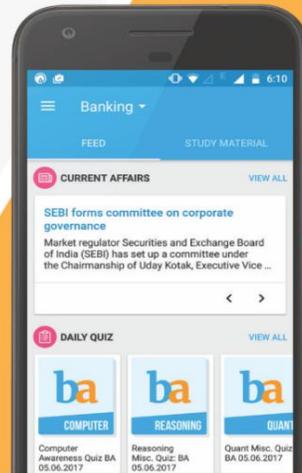
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