BOB Aptitude-Reasoning

1. W walked 30 metres towards South, took a left turn and walked 50 metres, again he. took a left tum and walked 30 metres. How far is he from the starting point?
(1) 80 metres (2) 100 metres (3) 130 metres (4) 50 metres (5) None of these

Directions (2-6): The following questions are based on the five three digit numbers given below: 972 526 487 359 251

2. If the positions of the first and second digits are interchanged which of the following will be third if they are arranged in ascending order?
(1) 359 (2) 972(3) 526 (4) 487(5) 251

3. If 2 is added to the sum of the digits of each of the above numbers how many will be multiples of 5?

(1) None (2) One (3) Two (4) Three (5) None of these

4. If 1 is subtracted from the last digit of each of the above numbers the sum of the digits of how many of them are prime numbers?

(1) None (2) Two (3) One (4) Three (5) All five

5. If the digits in each of the above numbers are written in reverse order which will be the second highest number?
(1) 251 (2) 359(3) 487 (4) 526(5) 972

6. If the positions of the digits of each of the numbers are interchanged such that the first becomes second, second becomes third and third becomes firs, which, of the following will be the highest?
(1) 972 (2) 526(3) 487 (4) 251(5) 359

Directions (Q. 7-9): In each of the questions below am given four statements followed by three conclusions numbered I, II & 111. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements, disregarding commonly known facts.

7. Statements: All chairs are keys. All keys are balloons. Some balloons are mirrors. Some mirrors are desks.
Conclusions:
I. Some desks are keys.
II. Some balloons are chairs.

III. Some mirrors are balloons.
1) Only I follows 2) Only II follows 3) Only I I I follows 4) Only I I and I I I follow 5) All I , I I and I I I follow
Exp All keys are balloons. Some balloons are mirrors. A+1 No conclusion
All chairs are keys.+ All keys are balloons A+A=A All Chairs are balloons conversion Some balloons are chairs
(1)Hence ii follows some balloons are mirrors (1)conversion Some mirrors are balloons (1)Hence iii follows

8. Statements: Some drums are posters. All posters are windows.
Some windows are tablets. All tablets are books. ,
Conclusions:
I. Some windows are drums.
II. Some books are posters.
III. Some tablets are drums
1) None follows 2) Only I follows'3) Only II follows 4) Only I I I follows 5) Only I and II follow
Exp Some drums are posters. All posters are windows =1+A=1=some drums are windows conversion some windows are drums 1 follows.
All posters are windows + some windows are tablets. =A+1=Hence no conclusion, neither ii nor iii

9. Statements: Some boxes are toys. Some toys are nails. Some nails are stores. Some stores are shops.
Conclusions:
I. Some shops are toys.
II. Some nails are boxes.
III. No shop is toy.
1) Only I follows 2) Only I I I follows 3) Only either I or I I I follows 4) Only II follows 5) None of these
Exp No conclusion followed by combination as 1-type statements cannot be combined However 1 and 11form a complimentary 1-E pair hence I or iii follows

10. A square garden has fourteen posts along each side at equal interval. Find how many posts are there in all four sides:
(a) 56 (b) 52 (c) 44 (d) 60
Exp 1. (b) read no. of posts = 4 (at the corners) + 4 , 12 (in between on the sides) = 4 + 48 = 52

11. Average age of students of an adult school is 40 years.120 new students whose average age is 32 years joined the school. As a result the average age is decreased by 4 years. Find the number of students of the school after joining of the new students:
(a) 1200 (b) 120 (c) 360 (d) 240
Exp 2. (d) Let the original no. of students be x A.T.S. 40x + 120 Ã 32 = (x + 120)36 â x = 120 read no. of students after joining the new students = x + 120 = 240

12. When Rs 250 added to 1/4th of a given amount of money makes it smaller than 1/3rd of the given amount of money by Rs 100. What is the given amount of money?
(a) Rs 350 (b) Rs 600 (c) Rs 4200 (d) Rs 3600
Exp 3. (c) Let the given amount be Rs x A.T.S-x - (x/4-250)=100=x=Rs.4200

13. Find the least number of candidates in an examination so that the percentage of successful candidates should be 76.8%:
(a) 500 (b) 250 (c) 125 (d) 1000
Exp (c) No. of successful candidates = 76.8% of x x = total students= (768/10x100 x X) =96/125x which must be a whole no. â´ the read least no. = 125

14. The number of times a bucket of capacity 4 litres to be used to fill up a tank is less than the number of times another bucket of capacity 3 litres used for the same purpose by 4. What is the capacity of the tank?
(a) 360 litres (b) 256 litres (c) 48 litres (d) 525 litres
Exp X/4 - X/3= 4=X= 48 l

15. A certain quantity of rice is spent daily for 30 students in a hostel. One day some students were absent as a result, the quantity of rice has been spent in the ratio of 6: 5. How many students were present on that day?
(a) 24 (b) 20 (c) 15 (d) 25
Exp (d) Read no. of students = 30 x 5/6 (30/x=6/5)

1. W walked 30 metres towards South, took a leit turn and walked 50 metres, again he. took a left tum and walked 30 metres. How far is he from the starting point ?
(1) 80 metres (2) 100 metres(3) 130 metres (4) 50 metres(5) None of these
Directions (2-6): The following questions are based on the five three digit numbers given below: 972 526 487 359 251

2. If the positions of the first and second digits are interchanged which of the following will be third if they are arranged in ascending order?
(1) 359 (2) 972(3) 526 (4) 487(5) 251

3. If 2 is added to the sum 1. W walked 30 metres towards South, took a left turn and walked 50 metres, again he. took a left tum and walked 30 metres. How far is he from the starting point?

(1) 80 metres (2) 100 metres (3) 130 metres (4) 50 metres (5) None of these

Directions (2-6): The following questions are based on the five three-digit numbers given below: 972 526 487 359 251

2. If the positions of the first and second digits are interchanged which of the following will be third if they are arranged in ascending order?
(1) 359 (2) 972(3) 526 (4) 487(5) 251

3. If 2 is added to the sum of the digits of each of the above numbers how many will be multiples of 5?
(1) None (2) One (3) Two (4) Three (5) None of these

4. If 1 is subtracted from the last digit of each of the above numbers the sum of the digits of how many of them are prime numbers?
(1) None (2) Two (3) One (4) Three (5) All five

5. If the digits in each of the above numbers are written in reverse order which will be the second highest number?
(1) 251 (2) 359(3) 487 (4) 526(5) 972

6. If the positions of the digits of each of the numbers are interchanged such that the first becomes second, second becomes third and third becomes firs, which, of the following will be the highest?

(1) 972 (2) 526(3) 487 (4) 251(5) 359

Directions (Q. 7-9): In each of the questions below am given four statements followed by three conclusions numbered I, II & 111. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements, disregarding commonly known facts.

7. Statements: All chairs are keys. All keys are balloons. Some balloons are mirrors. Some mirrors are desks.

Conclusions:

I. Some desks are keys.

II. Some balloons are chairs.

III. Some mirrors are balloons.

1) Only I follows 2) Only II follows 3) Only I I I follows 4) Only I I and I I I follow 5) All I , I I and I I I follow

Exp All keys are balloons. Some balloons are mirrors. A+1 No conclusion

All chairs are keys.+ All keys are balloons A+A=A All Chairs are balloons conversion Some balloons are chairs (1)Hence ii follows some balloons are mirrors (1)conversion Some mirrors are balloons (1)Hence iii follows

8. Statements: Some drums are posters. All posters are windows.

Some windows are tablets. All tablets are books. ,

Conclusions:

I. Some windows are drums.

II. Some books are posters.

III. Some tablets are drums

1) None follows 2) Only I follows'3) Only II follows 4) Only I I I follows 5) Only I and II follow

Exp Some drums are posters. All posters are windows =1+A=1=some drums are windows conversion some windows are drums 1 follows.

All posters are windows + some windows are tablets. =A+1=Hence no conclusion, neither ii nor iii

9. Statements: Some boxes are toys. Some toys are nails. Some nails are stores. Some stores are shops.

Conclusions:

I. Some shops are toys.

II. Some nails are boxes.

III. No shop is toy.

1) Only I follows 2) Only I I I follows 3) Only either I or I I I follows 4) Only II follows 5) None of these

Exp No conclusion followed by combination as 1-type statements cannot be combined However 1 and 11form a complimentary 1-E pair hence I or iii follows

10. A square garden has fourteen posts along each side at equal interval. Find how many posts are there in all four sides:

(a) 56 (*b*) 52 (*c*) 44 (*d*) 60

Exp 1. (*b*) Read no. of posts = 4 (at the corners) + 4 12 (in between on the sides) = 4 + 48 = 52

11. Average age of students of an adult school is 40 years.120 new students whose average age is 32 years joined the school. As a result the average age is decreased by 4 years. Find the number of students of the school after joining of the new students:

(a) 1200 (*b*) 120 (*c*) 360 (*d*) 240

Exp 2. (*d*) Let the original no. of students be x A.T.S. 40x + 120 Ã 32 = (x + 120)36 â x = 120 â´ Reqd no. of students after joining the new students = x + 120 = 240

12. When Rs 250 added to 1/4th of a given amount of money makes it smaller than 1/3rd of the given amount of money by Rs 100. What is the given amount of money?

(a) Rs 350 (*b*) Rs 600 (*c*) Rs 4200 (*d*) Rs 3600

Exp 3. (*c*) Let the given amount be Rs x A.T.S-x - (x/4-250)=100=x=Rs.4200 3

13. Find the least number of candidates in an examination so that the percentage of successful candidates should be 76.8%:

(a) 500 (*b*) 250 (*c*) 125 (*d*) 1000

Exp (*c*) No. of successful candidates = 76.8% of x x = total students= (768/10x100 x X) =96/125x which must be a whole no. the read least no. = 125

14. The number of times a bucket of capacity 4 litres to be used to fill up a tank is less than the number of times another bucket of capacity 3 litres used for the same purpose by 4. What is the capacity of the tank?

(a) 360 litres (*b*) 256 litres (*c*) 48 litres (*d*) 525 litres

Exp X/4 - X/3= 4=X= 48 *l*

15. A certain quantity of rice is spent daily for 30 students in a hostel. One day some students were absent as a result, the quantity of rice has been spent in the ratio of 6: 5. How many students were present on that day?

(*a*) 24 (*b*) 20 (*c*) 15 (*d*) 25

Exp (*d*) Read no. of students = 30 x 5/6 (30/x=6/5)

16. The digits of each of the above numbers how many will be multiples of 5?
(1) None (2) One(3) Two (4) Three(5) None of these

17. If 1 is subtracted from the last digit of each of the above numbers the sum of the digits of how many of them are prime numbers?
(1) None (2) Two(3) One (4) Three(5) All five

18. If the digits in each of the above numbers are written in reverse order which will be the second highest number?
(1) 251 (2) 359(3) 487 (4) 526(5) 972

19. If the positions of the digits of each of the numbers are interchanged such that the first becomes second, second becomes third and third becomes firs, which, of the following will be the highest?
(1) 972 (2) 526(3) 487 (4) 251(5) 359

Directions (Q. 7-9): In each of the questions below are given four statements followed by three conclusions numbered I, II & 111. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of t \h e given conclusions logically follows from the given statements, disregarding commonly known facts.

7. Statements: All chairs are keys. All keys are balloons. Some balloons are mirrors. Some mirrors are desks.
Conclusions:
I. Some desks are keys.
II. Some balloons are chairs.
III. Some mirrors are balloons.
1) Only I follows 2) Only II follows 3) Only I I I follows 4) Only I I and I I I follow 5) All I , I I and I I I follow
Exp All keys are balloons.+Some balloons are mirrors. A+1 No conclusion

All chairs are keys.+ All keys are balloons A+A=A All Chairs are ballons conversion Some balloons are chairs (1)Hence ii follows some balloons are mirrors (1)conversion Some mirrors are balloons (1)Hence iii follows

8. Statements: Some drums are posters.All posters are windows.
Some windows are tablets.All tablets are books. ,
Conclusions:
I. Some windows are drums.
II. Some books are posters.
III. Some tablets are drums
1) None follows 2) Only I follows'3) Only II follows 4) Only I I I follows 5) Only I and II follow
Exp Some drums are posters.+All posters are windows =1+A=1=some drums are windows conversion some windows are drums 1 follows.
All posters are windows + Some windows are tablets.=A+1=Hence no conclusion,neither ii nor iii

9. Statements: Some boxes are toys. Some toys are nails.Some nails are stores. Some stores are shops.
Conclusions:
I. Some shops are toys.
II. Some nails are boxes.
III. No shop is toy.
1) Only I follows 2) Only I I I follows 3) Only either I or I I I follows 4) Only II follows 5) None of these
Exp No conclusion followed by combination as 1-type statements canot be combined However 1 and 11form a complimentary 1-E pair hence I or iii follows

10 A square garden has fourteen posts along each side at equal interval. Find how many posts are there in all four sides:
(a) 56 (b) 52 (c) 44 (d) 60
Exp 1. (b) Reqd no. of posts = 4 (at the corners) + 4 Ã 12 (in between on the sides)= 4 + 48 = 52

11. Average age of students of an adult school is 40 years.120 new students whose average age is 32 years joined the school. As a result the average age is decreased by 4 years. Find the number of students of the school after joining of the new students:
(a) 1200 (b) 120 (c) 360 (d) 240
Exp 2. (d) Let the original no. of students be x A.T.S. 40x + 120 Ã 32 = (x + 120)36 â x = 120 â´ Reqd no. of students after joining the new students = x + 120 = 240

12. When Rs 250 added to 1/4th of a given amount of money makes it smaller than 1/3rd of the given amount of money by Rs 100. What is the given amount of money?
(a) Rs 350 (b) Rs 600 (c) Rs 4200 (d) Rs 3600
Exp 3. (c) Let the given amount be Rs x A.T.S-x - (x/4-250)=100=x=Rs.4200 3

13. Find the least number of candidates in an examination so that the percentage of successful candidates should be 76.8%:
(a) 500 (b) 250 (c) 125 (d) 1000

Exp (c) No. of successful candidates = 76.8% of x x = total students=(768/10x100 x X)=96/125x Which must be a whole no. â´ The read least no. = 125

14. The number of times a bucket of capacity 4 litres to be used to fill up a tank is less than the number of times another bucket of capacity 3 litres used for the same purpose by 4. What is the capacity of the tank?
(a) 360 litres (b) 256 litres (c) 48 litres (d) 525 litres
Exp X/4 - X/3= 4=X= 48 l

15. A certain quantity of rice is spent daily for 30 students in a hostel. One day some students were absent as a result, the quantity of rice has been spent in the ratio of 6 : 5. How many students were present on that day?
(a) 24 (b) 20 (c) 15 (d) 25
Exp (d) Reqd no. of students = 30 x 5/6 (30/x=6/5)