

Age Based Puzzles

Solution

Direction:(01-03): Names given: A, B, C, D, E and F.

- 1) C is the second youngest person.
- 2) B is not the youngest.
- 3) E is younger than A but elder to B.
- 4) E is 25 years old.
- 5) The difference of ages of D and E is 20 years.

(Case 1: $E = 25$ and $E - D = 20 \Rightarrow 25 - 20 = 5$ or Case 2: $E = 25$ and $D - E = 20 \Rightarrow D = 25 + 20 = 45$).

Now, if the sum of ages of A and E is 70 and the sum of ages of F and D is 89 years then,
 $A + E = 70$, $A = 70 - 25 = 45$ years.

If A is 45 years of age then D will be 5 years as no two persons have the same age.

So, age of F = $89 - 5 = 84$ years. So F will be the eldest and D will be the youngest.

Names	F	A	E	B	C	D
Age (in Descending order)	84	45	25			5

1. **Answer: D**

Hence, the age of D will be 5 years.

2. **Answer: B**

So the age of C will lie between E who is 25 years old and D who is 5 years old.

Hence, the age of C will be 10 years.

3. **Answer: D**

Now, if the sum of ages of A and E is 70 and the sum of ages of F and D is 89 then,
 $A + E = 70$, $A = 70 - 25 = 45$ years. If A is 45 years of age then D will be 5 years.

So, age of F = $89 - 5 = 84$ years. So F will be the eldest and D will be the youngest.

Now, if the sum of ages of A and E is 70, then the average age of A and E will be
 $70 \div 2 = 35$ years.

Direction (04-08): 8 persons: P, Q, R, S, T, U, V and W
Year (age): 1945 (73), 1956 (62), 1961 (57), 1973 (45), 1978 (40), 1989 (29), 1996 (22) and 2007 (11)

1. S was born in an odd number year.
2. The difference between the present age of S and V is 5.

(There are two possibilities)

3. The present age of W is twice the present age of Q.

(Therefore Q was born in 2007 and W in 1996)

4. Only 3 people were born between V and T.

5. As many people were born between T and Q as between T and P.

(Therefore case 1 will be eliminated as in case 1, there were 6 people born between T and Q and hence the above condition can not be fulfilled)

6. R was born in one of the years before P.

Year	Age	Person
1945	73	R
1956	62	V
1961	57	S
1973	45	P
1978	40	U
1989	29	T
1996	22	W
2007	11	Q

4. **Answer: A**

Hence, R was born in 1945.

5. **Answer: D**

Hence the age of U is 40.

6. **Answer: D**

Hence, the difference between the ages of S and R is 16.

7. **Answer: A**

Hence, T was born before W but after U.

8. **Answer: C**

The present age of S = 57

After 4 years, $57 + 4 = 61$

Hence, the age of S after 4 years will be 61.

Direction: (09-13): Six persons: A, B, C, D, F and G

1) Age of C is the sum of the ages of F and G who is sitting at one of the extreme ends.

C's age = F's age + G's age ----(i)

2) B who is 18 years old is sitting between G and C.

B's age = 18 years

3) C is sitting 2nd to the right of D whose age is thrice the age of F.



D's age = $3 \times$ F's age ----(ii)

4) Age of F is four more than the age of G.

F's age = G's age + 4 ----(iii)

5) The difference of ages between F and C is 8 years old.

6) C is older than F.

combining these two statements, C's age - F's age = 8 ----(iv)

7) Number of persons sitting to the left of A are one less than number of persons sitting to the right of A who is two years younger than G.

Using this statement A will sit immediate to the right of D.

A's age = G's age - 2 ----(v)

Using (i) and (iv),

G's age = 8 years

After putting the value of G in (iii),

F's age = $8 + 4 = 12$ years.

After putting the values of F and G in (i),

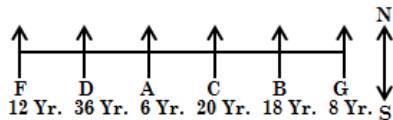
C's age = $12 + 8 = 20$ years

After putting the value of F in (ii),

D's age = $3 \times$ F's age = $3 \times 12 = 36$ years

Using (v),

A's age = $8 - 2 = 6$ years



9.

Answer: D

Sum of the ages of A and C = $6 + 20 = 26$

Hence, Sum of the ages of A and C = $6 + 20 = 26$

10. **Answer: D**

11. **Answer: D**

Hence, A is sitting second to the left of B.

12. **Answer: E**

A and C are sitting adjacent to each other. Hence, No one will sit between A and C.

13. **Answer: B**

Hence, F is sitting at the extreme left end.

14. **Answer: (E)**

$C > A > E > B > D > F$

15. **Answer: (E)**

$C > A > E > B > D > F$

16. **Answer: C**

' $C > B > A \geq K = R$ '

Direction (17-20):

Persons	Year
T	1946
P	1967
Q	1972
R	1982
S	1984
V	1989
U	1992

17. **Answer: D**

18. **Answer: B**

19. **Answer: E**

20. **Answer: C**