

(Directions 1 – 5): Study the following information carefully and answer the questions given below:

Six persons Rajiv, Sunil, Kishan, Punit, Gaurav and Arjun live on six different floor of a building, starting from floor 1 to floor 6. No two persons have the same age among them. They bought six different things on the occasion of Dhanteras which are Mobile, Fridge, Bike, LEDTV, Microwave and Laptop but not necessarily in the same order.

- 1) The person who bought bike lives on one of the even numbered floors.
- 2) The person who bought fridge is 22 years old and lives on the top floor.
- 3) Rajiv's age is 2 years more than half of the age of the person who lives four floors below him.
- 4) Neither Arjun nor Punit bought an LEDTV.
- 5) Gaurav lives three floors below Punit both do not live on either of the extreme floors.
- 6) Person who bought a mobile lives three floors below the person who is 27 years old.
- 7) Sunil is 25 years old i.e. 10 years younger than the person living three floors above him.
- 8) The person who bought microwave lives two floors below the person who is 32 years old.

1. Who among the following bought bike?

- 1) Kishan
- 2) Sunil
- 3) Arjun
- 4) Rajiv
- 5) Punit

2. Who lives two floors below the person who has bought Laptop?

- 1) Rajiv
- 2) Kishan
- 3) Punit
- 4) Sunil
- 5) Gaurav

3. What is the age of the person who bought a microwave?

- 1) 32
- 2) 22
- 3) 27
- 4) 25
- 5) 40

4. What is the sum of age of the persons who live on 3rd and 5th floor?

- 1) 59
- 2) 48
- 3) 65
- 4) 40
- 5) 55

5. Who lives on second floor?

- 1) Sunil
- 2) Rajiv
- 3) Gaurav
- 4) Arjun
- 5) Punit

(Directions 6 – 10): Study the given information carefully and answer the following questions below.

In a warehouse, 8 boxes having different medicines – Vicks, Y, Sumo, Ibucom, Combiflam, X, Partrum and Paracetamol. They belong to different companies – A, B, C, D, E, F, G and H but not necessary in that order. Each box has a number written on it from 1 to 8 but not necessary in that order. Number 1 is at the top, number 8 is at the bottom and others accordingly.

There are 3 boxes between company A's box and box of Combiflam. Box of company, which makes medicine Y, is exactly 2 place above box of company B. Box, which has Partrum, is neither at no. 1 nor at no. 8. Box of company B is at even number but not at number 6. Box of Paracetamol is above box F. There are 3 boxes between boxes of company B and D. Box of Y is immediately above than box of Sumo. Box of company, which makes medicine X, is immediate between box of company C and box of Ibucom, company D's product. X is not the product of company F. Box of Partrum is immediately above to box of Vicks. Box of company G is not at number 7 while box of company F is above to box of company H. Neither X nor Paracetamol is the product of H.

6. **What is the name of medicine which comes from company A?**
 - 1) Sumo
 - 2) Paracetamol
 - 3) Y
 - 4) Partrum
 - 5) X
7. **Which company produces Partrum medicine?**
 - 1) A
 - 2) G
 - 3) C
 - 4) B
 - 5) H
8. **Which box of medicine is immediately below the box of Vicks?**
 - 1) X
 - 2) Combiflam
 - 3) Sumo
 - 4) Y
 - 5) Partrum
9. **Which company's box is immediately between the box of Ibucom and Combiflam?**
 - 1) E
 - 2) A
 - 3) F
 - 4) B
 - 5) None of these
10. **Which company's box is at the top?**
 - 1) H
 - 2) B
 - 3) F
 - 4) A
 - 5) G

Answer:

Solution (Puzzle : 1)

Solution:

Person: Rajiv, Sunil, Kishan, Punit, Gaurav and Arjun

Things: Mobile, Fridge, Bike, LEDTV, Microwave and Laptop

Floor: 1 to 6

1. Gaurav lives three floors below Punit both do not live on either of the extreme floors.
(Implies, Punit lives on the 5th floor only then it is possible.)
- 2) Sunil is 25 years old i.e. 10 years younger than the person living three floors above him.
- 3) The person who bought fridge is 22 years old and lives on the top floor.
(Now there is only one possibility for Sunil to be placed i.e. at the first floor.)

Floor	Person	Age	Thing
6 th		22	Fridge
5 th	Punit		
4 th		35	
3 rd			
2 nd	Gaurav		
1 st	Sunil	25	

- 4) Person who bought a mobile lives three floors below the person who is 27 years old.
 (Sunil can't buy mobile as the person living three floors above him is 35 years old neither the person living on third floor can buy mobile, hence Gaurav bought the mobile and Punit is 27 years old.)
- 5) The person who bought bike lives on one of the even numbered floors.
 (As person on 2nd and 6th floor have bought mobile and fridge respectively, implies person on 4th floor has bought a bike.)

Floor	Person	Age	Thing
6 th		22	Fridge
5 th	Punit	27	
4 th		35	Bike
3 rd			
2 nd	Gaurav		Mobile
1 st	Sunil	25	

- 6) The person who bought microwave lives two floors below the person who is 32 years old.
 (There is only such way for this to be possible i.e. if the person who is 32 years old lives on 3rd floor.)
- 7) Neither Arjun nor Punit bought an LEDTV.
 (Clearly it implies Kishan has bought the LEDTV.)
- 8) Rajiv's age is 2 years more than half of the age of the person who lives four floors below him.
 (Clearly Rajiv can't be on the 4th floor which mean she is on 6th floor and Gaurav's age is 40.)

Floor	Person	Age	Thing
6 th	Rajiv	22	Fridge
5 th	Punit	27	Laptop
4 th	Arjun	35	Bike
3 rd	Kishan	32	LEDTV
2 nd	Gaurav	40	Mobile
1 st	Sunil	25	Microwave

Hence, Arjun bought the bike.

Solution Puzzle 2 (6-10)

Medicine = Vicks, Y, Sumo, Ibucom, Combiflam, X, Partrum and Paracetamol.

Companies = A, B, C, D, E, F, G and H.

Each box has number from 1 to 8 and arranged one above the other.

1. Box of company B is at even number but not at number 6. Box of company, which makes medicine Y, is exactly 2 placed above box of company B (therefore box of company B cannot be placed at number 2).

Case – 1

Number	Medicine	Company
1		
2	Y	
3		
4		B
5		
6		
7		
8		

Case – 2

Number	Medicine	Company
1		
2		
3		
4		
5		
6	Y	
7		
8		B

2. There are 3 boxes between boxes of company B and D. Box of company, which makes medicine X, is immediate between box of company C and box of Ibucom, company D's product.

Case - 1

Number	Medicine	Company
1		
2	Y	
3		
4		B
5		
6		C
7	X	
8	Ibucom	D

Case - 2(a)

Number	Medicine	Company
1		
2		C
3	X	
4	Ibucom	D
5		
6	Y	
7		
8		B

Case - 2(b)

Number	Medicine	Company
1		
2		
3		
4	Ibucom	D
5	X	
6	Y	C
7		
8		B

3. Box of Y is immediately above than box of Sumo. Box of Partrum is immediately above to box of Vicks.

Box, which has Partrum, is neither at no. 1 nor at no. 8 (therefore case-2(a) cannot be proceed further).

Case - 1(a)

Number	Medicine	Company
1		
2	Y	
3	Sumo	
4		B
5	Partrum	
6	Vicks	C
7	X	
8	Ibucom	D

Case - 1(b)

Number	Medicine	Company
1		
2	Y	
3	Sumo	
4	Partrum	B
5	Vicks	
6		C
7	X	
8	Ibucom	D

Case - 2(b)

Number	Medicine	Company
1		
2	Partrum	
3	Vicks	
4	Ibucom	D
5	X	
6	Y	C
7	Sumo	
8		B

4. There are 3 boxes between company A's box and box of Combiflam. Box of Paracetamol is above box F (therefore case -2(b) cannot be proceed further).

Case - 1(a)

Number	Medicine	Company
1	Combiflam	
2	Y	
3	Sumo	
4	Paracetamol	B
5	Partrum	A
6	Vicks	C
7	X	F
8	Ibucom	D

Case - 1(b)(i)

Number	Medicine	Company
1	Combiflam	
2	Y	
3	Sumo	
4	Partrum	B
5	Vicks	A
6	Paracetamol	C
7	X	F
8	Ibucom	D

Case - 1(b)(ii)

Number	Medicine	Company
1	Paracetamol	
2	Y	A
3	Sumo	
4	Partrum	B
5	Vicks	
6	Combiflam	C
7	X	
8	Ibucom	D

5. X is not the product of company F (therefore case -1(a) and case- 1(b)(i) cannot be proceed further). Box of company G is not at number 7 while box of company F is above to box of company H (therefore H can produce Vicks or X according to step-9). Neither X nor Paracetamol is the product of H (then H must produce Vicks).

Case - 1(b)(ii)

Number	Medicine	Company
1	Paracetamol	G
2	Y	A
3	Sumo	F
4	Partrum	B
5	Vicks	H
6	Combiflam	C
7	X	E
8	Ibucom	D

(Directions 1 – 5): Study the following information carefully and answer the questions follows:

Eight people Pawan, Qureshi, Rashid, Sonam, Tarikh, Veer, Wasim and Yogesh like eight different fruits – Papaya, Grapes, Mango, Pomegranate, Guava, Banana, Cherry and Watermelon but not necessarily in same order. They also like different cars namely Audi, BMW, Mercedes, Honda, Swift, Maruti, Ertiga and Xylo but not necessarily in the same order.

Rashid doesn't like Xylo car but likes Banana. Pawan and Tarikh don't like Mercedes car. Pawan doesn't like Papaya. Yogesh doesn't like Watermelon, but likes Honda car. Qureshi's favourite car is Ertiga. Veer likes Pomegranate. Sonam likes Mango and his favourite car is Maruti. The one who likes Grapes has Mercedes. The one who has swift likes Papaya. The one who like Guava likes Audi car.

1. **Which person likes BMW?**
 - 1) Qureshi
 - 2) Sonam
 - 3) Yogesh
 - 4) Rashid
 - 5) None of these
2. **Which of the following statement is true?**
 - 1) Tarikh likes Mango and has Swift.
 - 2) The one who has Maruti likes Banana.
 - 3) The one who likes Cherry has Honda car.
 - 4) The one who likes Mango has swift.
 - 5) None of these.
3. **Which of the following combination is true for given people?**
 - 1) Yogesh-Mango-Honda
 - 2) Veer-Cherry-Xylo
 - 3) Pawan-Guava-Audi
 - 4) Tarikh-Papaya-BMW
 - 5) All are true
4. **Which person likes Xylo?**
 - 1) Qureshi
 - 2) Veer
 - 3) Yogesh
 - 4) Rashid
 - 5) None of these
5. **Which car does Qureshi have?**
 - 1) BMW
 - 2) Audi
 - 3) Maruti
 - 4) Ertiga
 - 5) Honda

Solution :

Eight people: Pawan, Qureshi, Rashid, Sonam, Tarikh, Veer, Wasim and Yogesh

Fruits: Papaya, Grapes, Mango, Pomegranate, Guava, Banana, Cherry and Watermelon

Cars: Audi, BMW, Mercedes, Honda, swift, Maruti, Ertiga and Xylo

1. Qureshi's favourite car is Ertiga. Veer likes Pomegranate. Sonam likes Mango and his favourite car is Maruti. Pawan and Tarikh don't like Mercedes car.

Person	Fruit	Car	Constraints
Pawan			Mercedes
Qureshi		Ertiga	
Rashid			
Sonam	Mango	Maruti	
Tarikh			Mercedes
Veer	Pomegranate		
Wasim			
Yogesh			

2. Pawan doesn't like Papaya. Yogesh doesn't like Watermelon, but likes Honda car. Rashid doesn't like Xylo car but likes Banana.

Person	Fruit	Car	Constraints
Pawan			Mercedes, Papaya
Qureshi		Ertiga	
Rashid	Banana		Xylo
Sonam	Mango	Maruti	
Tarikh			Mercedes
Veer	Pomegranate		
Wasim			
Yogesh		Honda	Watermelon

3. The one who likes Grapes has Mercedes. (Hence, Grapes and Mercedes will be applicable for Wasim). The one who has Swift likes Papaya. (This is applicable for Tarikh). The one who like Guava likes Audi car. (This is applicable for Pawan)

Person	Fruit	Car	Constraints
Pawan	Guava	Audi	Mercedes, Papaya
Qureshi		Ertiga	
Rashid	Banana		Xylo
Sonam	Mango	Maruti	
Tarikh	Swift	Papaya	Mercedes
Veer	Pomegranate		
Wasim	Grapes	Mercedes	
Yogesh		Honda	Watermelon

The final table is:

Person	Fruit	Car
Pawan	Guava	Audi
Qureshi	Watermelon	Ertiga
Rashid	Banana	BMW
Sonam	Mango	Maruti
Tarikh	Papaya	Swift
Veer	Pomegranate	Xylo
Wasim	Grapes	Mercedes
Yogesh	Cherry	Honda

(Directions 6 – 10): Read the following information carefully and answer the questions given below.

Eight persons A, B, C, D, E, F, G and H live in an eight floor building. Each of them likes a different chocolate viz. Dairy Milk, Toblerone, Five Star, Munch, Hershey's, Cadbury, Bar One and Chunky, but not necessarily in the same order. The lower floor is numbered 1, the upper floor is numbered 2 and the topmost floor is numbered 8.

There is only one floor between the one who likes Five Star and the one who likes Chunky. There are two floors between the one who likes Toblerone and C. F lives on an even numbered floor and likes Bar One. Neither A nor B likes Toblerone or Hershey's. The one who likes Munch lives on floor no. 1. There are three floors between the floor on which B lives and the floor on which E lives. F lives above C, who does not live on first floor but likes Dairy Milk. The one who likes Five Star lives on the topmost floor. H does not like Five Star. G lives on the floor number which is between A and F. B lives above E and A. Only one person lives between the one who likes Hershey's and the one who likes Toblerone.

6. **Which of the following likes Munch?**
 - 1) B
 - 2) F
 - 3) G
 - 4) H
 - 5) E
7. **Which of the following combination is true?**
 - 1) 2 – B – Dairy Milk
 - 2) 1 – F – Munch
 - 3) 5 – G – Toblerone
 - 4) 7 – A – Cadbury
 - 5) 8 – E – Five Star
8. **E likes which of the following Chocolate?**
 - 1) Hershey's
 - 2) Bar One
 - 3) Munch
 - 4) Cadbury
 - 5) Toblerone
9. **Who among the following lives on floor no. 7?**
 - 1) H
 - 2) The one who likes Hershey's
 - 3) D
 - 4) The one who likes Cadbury
 - 5) A
10. **How many people live between H and the person who likes Cadbury?**
 - 1) Six
 - 2) Five
 - 3) Four
 - 4) Three
 - 5) Two

Solution :

Person: A, B, C, D, E, F, G and H.

Chocolate: Dairy Milk, Toblerone, Five Star, Munch, Hershey's, Cadbury, Bar One and Chunky.

Floor: 1 to 8

Hence, H likes Munch.

1. The one who likes Munch lives on floor no. 1. The one who likes Five Star lives on the topmost floor. There is only one floor between the one who likes Five Star and the one who likes Chunky.

Floor	Person	Chocolate
8		Five Star
7		
6		Chunky
5		
4		
3		
2		
1		Munch

2. F lives on an even numbered floor and likes Bar One. F lives above C, who does not live on first floor but likes Dairy Milk. There are two floors between the one who likes Toblerone and C.

Floor	Person	Chocolate
8		Five Star
7		
6		Chunky
5		Toblerone
4	F	Bar One
3		
2	C	Dairy Milk
1		Munch

3. There are three floors between the floor on which B lives and the floor on which E lives. B lives above E and A. Neither A nor B likes Toblerone or Hershey's.

The only possible case is:

Floor	Person	Chocolate
8		Five Star
7	B	
6		Chunky
5		Toblerone
4	F	Bar One
3	E	
2	C	Dairy Milk
1		Munch

4. G lives on the floor number which is between A and F.
(A cannot live on floor no 8). Neither A nor B likes Toblerone or Hershey's.

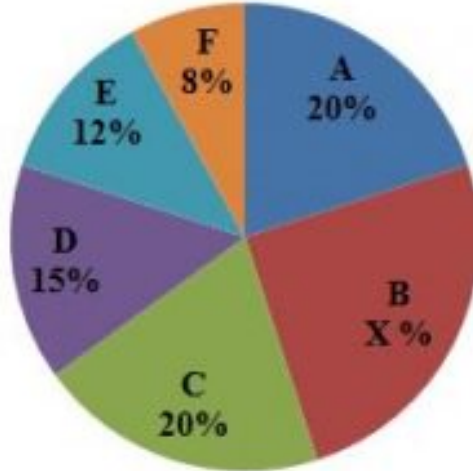
Floor	Person	Chocolate
8		Five Star
7	B	Cadbury
6	A	Chunky
5	G	Toblerone
4	F	Bar One
3	E	Hershey's
2	C	Dairy Milk
1		Munch

5. H does not like Five Star.

Floor	Person	Chocolate
8	D	Five Star
7	B	Cadbury
6	A	Chunky
5	G	Toblerone
4	F	Bar One
3	E	Hershey's
2	C	Dairy Milk
1	H	Munch

I. Study the given pie-Chart and table carefully and answer the Questions given below

The pie Chart shows the distribution of the total number of students Studying MBBS and Engineering from 6 colleges and the table shows the ratio of male to female students and the ratio of MBBS to Engineering Students



Total Number of Students = 3,25,000

College	Male:Female	MBBS:Engineering
A	6:5	3:2
B	3:7	2:3
C	?	4:7
D	5:3	8:5
E	9:7	?
F	3:1	9:7

- If the ratio of number of Male and Female students in College C same as that of the ratio of number of Male and Female students in College D. The number of female students in College F is What % of the number of male students in College C ?**

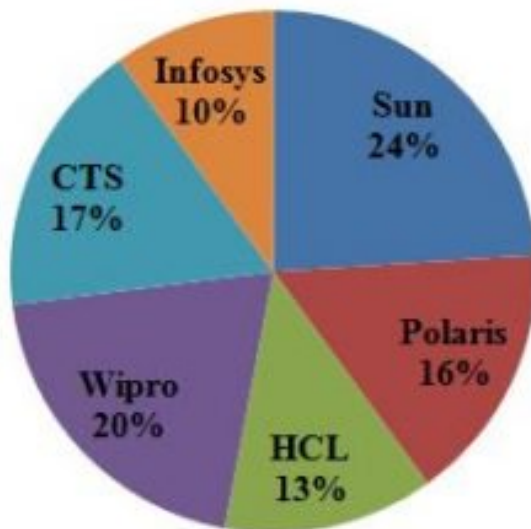
 - 1.12%
 - 2.16%
 - 3.15%
 - 4.10%
 - 5.None of these
- Find the number of Male Engineering Students in College B?**

 - 1.27890
 - 2.18570

- 3.12780
4.Can't be determined
5.None of these
3. **If the ratio of Number of Male and Female students in College C is same as that of the number of MBBS and Engineering Students in College D.What is the difference between the number of MBBS Students in College A and E ?**
1.18720
2.12635
3.16425
4.14625
5.None of these
4. **What is the ratio of female students of college B to those of college F ?**
1.290:107
2.121:97
3.455:52
4.121:69
5.None of these
5. **The number of Engineering Students in College A is what % less than the number of MBBS students in College D (approx)?**
1.13.33%
2.12.65%
3.15.38%
4.21.56%
5.None of these

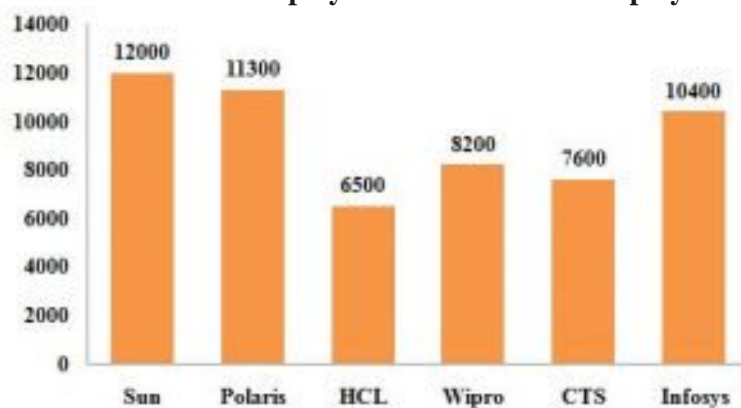
II. Study the given pie-Chart and Bar Graph carefully and answer the Questions given below

Percentage-wise distribution of employees in 5 different Organizations in a state



Total No of Employees = 1,32,500

Number of Female employees out of the total employees



- 6. What is the total number of female employees in Wipro and male employees in Sun and Infosys ?**
1.28900
2.30850
3.32600
4.26980
5.None of these
- 7. What is the difference between the total number of employees in Polaris to the number of male employees in HCL ?**
1.10500
2.10000
3.10725

4.10475

5.None of these

8. **Which of the following Organizations has more number of female employees than male employees ?**

1.Wipro

2.Sun

3.Infosys

4.CTS

5.None of these

9. **The number of male employees in CTS is approximately what % of the total number of employees in Sun ?**

1.47%

2.32%

3.51%

4.28%

5.None of these

10. **What is the average number of male employees in Wipro, Polaris and CTS ?**

1.12560

2.15220

3.13725

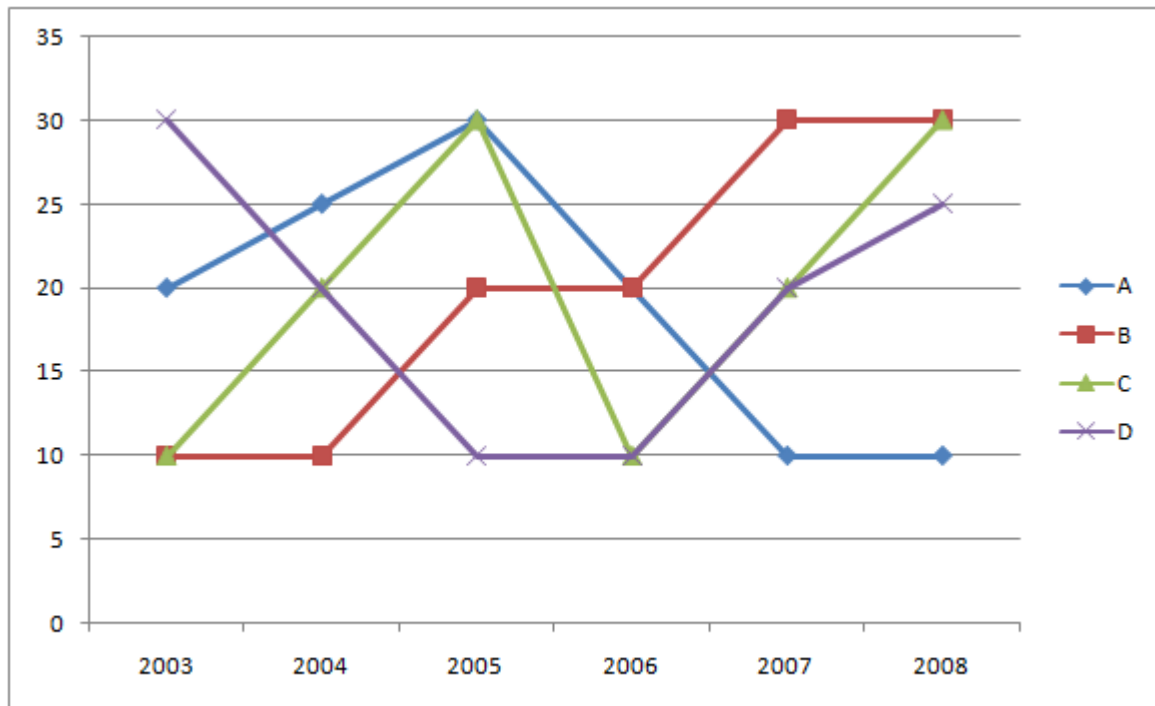
4.14375

5.None of these

ANSWER :

1. 2
2. 4
3. 4
4. 3
5. 1
6. 2
7. 4
8. 3
9. 1
10. 4

I. Following Line graph shows the percentage increase in the salaries of four persons during the years 2003 to 2008 with respect to previous year.



- Which of the following is the average percentage increase in the salary of C during the six years?
 - 20%
 - 40%
 - 15%
 - 10%
- If the ratio of salaries A and B at the end of the year 2002 was 4:3, then what was the ratio of their salaries at the end of year 2008?
 - 20:44
 - 40:39
 - 50:39
 - 50:44
- If the salaries of B and D were equal at the end of the year 2004, then what was the ratio of the salaries of B and D at the end of the year 2005?
 - 12:13
 - 14:19
 - 12:11
 - 15:14
- If the ratio of salaries of A, B, C and D at the end of the year 2004 was 7:11:17:13, then what was the ratio of their salaries at the end of the year 2007?
 - 2:13:17:19
 - 4:19:13:17

- C. 7:12:17:11
- D. 15:14:17:11

5. **If the salary of D at the end of the year 2002 was Rs. 50000, then what was his salary at the end of 2007?**

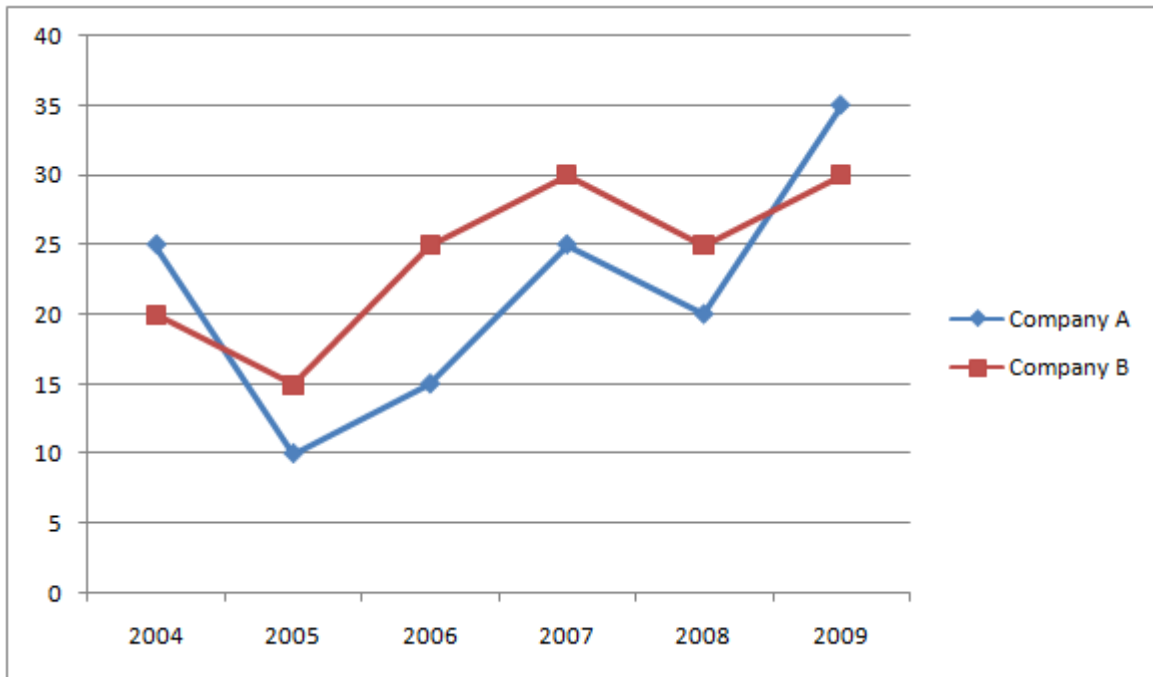
- A. Rs. 2,13,719
- B. Rs. 1,13,016
- C. Rs. 1,13,256
- D. Rs. 1,15,417

ANSWER :

- 1. A
- 2. C
- 3. C
- 4. C
- 5. C

II. Refer to the line graph and answer the given questions

Percentage rise in profit of two companies over the years



6. **If the profit earned by company A in the year 2005 was Rs.1.50 lakh, what was the profit earned by the company A in the year 2006?**
 - A. 185000
 - B. 172500
 - C. 165500
 - D. 182500
7. **If the profit earned by company B in the year 2007 was Rs.2 lakh, what was the profit earned by the company B in the year 2008?**
 - A. 285000
 - B. 272500
 - C. 250000
 - D. 282500
8. **If the profit earned by company A in the year 2006 was Rs.1.84 lakh, what was the amount of profit earned by the company B in the year 2006?**
 - A. Rs. 2.14 lakh
 - B. Rs. 2.44 lakh
 - C. Rs. 2.32 lakh
 - D. cannot be determined
9. **What is the percentage increase in percentage rise in profit of company B in the year 2007 from the previous year?**
 - A. 20%
 - B. 5%
 - C. 10%
 - D. 15%

10. What is the average percentage rise in profit of company B over all the years together?

A. $125/6$ %

B. $135/6$ %

C. $145/6$ %

D. $155/6$ %

ANSWER :

6. B

7. C

8. D

9. A

10. C

1. Sum of Rs.118 was shared among 50 boys and girls,each girl receive Rs.2.60 and boy receive Rs.1.80.Find the number of girls.
A) 15
B)25
C)30
D)35
2. A Mixture contain 88% of sulphur,another mixture contain 70% of sulphur.In order to get 84% of sulphur,in what ratio these two must be mixed.
A) 2:7
B)7:2
C)7:4
D)4:5
3. In what ratio water be mixed with juice costing Rs.12 per liter to obtain a mixture worth of Rs.8 per litre?
A)2:3
B)2:1
C)1:2
D)3:2
4. In what proportion must sugar at Price 4.10 per kg must be mixed with weat at Price 4.60 per kg, so that the mixture be worth Rs 4.30 a Kg ?
A)3:2
B)2:3
C)5:3
D)None of these
5. In what proportion must water be mixed with milk to gain 40 % by selling it at cost price ?
A) 3:5
B)5:3
C)2:5
D)3:2
6. 400 gm spirit solution has 30 % spirit in it , what is the ratio of spirit should be added to make it 80 % in the solution ?
A)2:5
B)4:3
C)5:2
D)2:7
7. One alloy contains silver and copper in the ratio 5:1 and the other contains in the ratio 7:2 respectively. What weights of the 2 must be melted together, so as to make a 5 lb mass with 80% silver?
A)5:3
B)3:2
C)2:3
D)2:5
8. Box A contains wheat worth Rs.30 per kg and box B contains wheat worth Rs.40 per kg.If both A and B are mixed in the the ratio 4:7 then the price of mixture per kg is
A)36.36
B)35.80
C)42.50
D)31.30

9. In what ratio must a person mix three kinds of Oats costing him Rs 1.20, Rs 1.44 and Rs 1.74 per Kg so that the mixture may be worth Rs 1.41 per Kg?

- A) 11:77:7
- B) 11:45:7
- C) 25:45:8
- D) 27:23:6

10. Some amount out of Rs. 10000 was lent at 6 % p.a. and the remaining at 4% p.a. If the total simple interest from both the fractions in 5 years was Rs. 1500, then the ratio of the 2 different amount is

- A) 1:3
- B) 3:1
- C) 1:4
- D) 3:2

ANSWER:

- 1. D
- 2. B
- 3. C
- 4. A
- 5. C
- 6. A
- 7. B
- 8. A
- 9. A
- 10. A

1. **A vessel contains 63 litres of a mixture of milk and water. The ratio of milk to water is 3:4. If 14 litres of mixture is taken out from that vessel and then 6 litres of water added to it,What will be the percentage of milk in the final mixture ?**
A)40%
B)39%
C)38%
D)37%
E)None of these
2. **Three vessels whose capacities are in the ratio of 6:3:2 are completely filled with milk and water.The ratio of milk and water in the mixture 2:3 , 4:2 and 5:2. Taking $\frac{1}{4}$ of first, $\frac{1}{2}$ of second and $\frac{1}{2}$ of third , new mixture kept in a new vessel.What is the percentage of water in the new mixture ?**
A)42%
B) $42\frac{2}{14}$ %
C)43%
D)40%
E)None of these
3. **A and B are 2 alloys of gold and copper in the ratio 6:3 and 4:7.Equal quantities of these alloy mixed to form a new alloy.The ratio of gold and copper in the new alloy is**
A)20:21
B)21:20
C)24:23
D)17:16
E)None of these
4. **In what ratio grocer mix two varieties of pulses costing Rs.25 and Rs.30 per Kg to get a mix worth Rs.28.75**
A)1:3
B)4:9
C)11:4
D)4:5
E)None of these
5. **Two vessels A and B contain Soda and water mixed in the ratio 4:7 and 5:3.Find the ratio of mix be mixed to obtain a mix contain soda and water in the ratio 9:2 ?**
A)10:40
B)16:45
C)17:40
D)40:17
E)None of these
6. **A merchant has 2500 kg of rice,part of which he sells at 10% profit and the rest at 16% Profit .He gains 12% overall.The quantity sold at 16% profit is**
A)833
B)830
C)830.33
D)833.33
E)None of these
7. **How many Kg of sugar costing Rs. 10kg must be mixed with 36Kg of sugar costing Rs.9 per Kg ,so that there may be gain of 11% by selling the mixture of Rs.10.30 per Kg?**
A)10
B)11

- C)12
D)13
E)14
8. **Sum of Rs.96 was shared among 48 boys and girls,each girl receive Rs.2.40 and boy receive Rs.1.80.How much amount did boys**
A)26
B)27
C)32
D)30
E)None of these
9. **A Man covered a distance of 50km in 5 hrs partly by bus at 12kmph and partly by foot at 7kmph.The distance covered by bus is**
A)20
B)10
C)30
D)40
E)None of these
10. **In what ratio water should be added with Juice costing Rs.16 per litre to obtain a mixture worth Rs.6 per litre?**
A)3:5
B)2:3
C)3:2
D)5:3
E)None of these

ANSWER:

1. C
2. B
3. D
4. A
5. C
6. D
7. E
8. C
9. C
10. D

Directions (1-5): In the following questions, the symbols \$, @, %, & and # are used with the following meanings as illustrated below:

'A \$ B' means A is neither greater nor smaller than B

'A @ B' means A is neither greater than nor equal to B

'A % B' means A is neither smaller than nor equal to B

'A & B' means A is not smaller than B

'A # B' means A is not greater than B

In each of the following questions, assuming the given statements to be true, find out which of the two conclusions I and II given below them is/are definitely true. Give answer

- a) if only conclusion I is true.
- b) if only conclusion II is true.
- c) if either conclusion I or II is true.
- d) if neither conclusion I nor II is true.
- e) if both conclusions I and II are true.

Q1.Statements: W&P, P %G, G @ I, I # N

Conclusions: I. N%W II. N # W

Q2.Statements: U @ D, D \$ E, E % Y, Y& W

Conclusions: I. U @ Y II. W %D

Q3.Statements: Z % N, N # K, K \$ M, M @ R

Conclusions: I. M \$ N II. M% N

Q4.Statements: V&D, D %T, K \$ T, K # F

Conclusions: I. V% F II. V% K

Q5.Statements: S \$ Q, Q @ B, B &K, K # W

Conclusions: I. W%K II. S @ B

Solution (1-5):

S1. Ans.(c)

Sol. Conclusions: I. N%W (Not True) II. N # W (Not true)

S2. Ans.(d)

Sol. Conclusions: I. U @ Y (Not true) II. W %D (Not true)

S3. Ans.(c)

Sol.Conclusions: I. M \$ N (Not true) II. M% N (Not true)

S4. Ans.(b)

Sol. I. V% F (Not true) II. V% K (true)

S5. Ans.(b)

Sol. Conclusions: I. W%K (Not true) II. S @ B (True)

Directions (6-10): In these questions, relationship between different elements is shown in the statements. These statements are followed by two conclusions:

- (a) If only conclusion I follows.
- (b) If only conclusion II follows.
- (c) If either conclusion I or II follows.
- (d) If neither conclusion I nor II follows.
- (e) If both conclusion I and II follow.

Q6. Statements: $A \leq D < C \geq B < E$

Conclusion:

- I. $C > A$
- II. $A \geq C$

Q7. Statements: $P > L \leq M < N > Q$

Conclusion:

- I. $P > Q$
- II. $Q > M$

Q8. Statement: $S \geq T = U < V \geq X$

Conclusions:

- I. $V > S$
- II. $V > T$

Q9. Statement: $M \leq N > O \geq P = Q$

Conclusions:

- I. $M \geq Q$
- II. $Q < M$

Q10. Statement: $U \leq V < W = X < Y$

Conclusions:

- I. $Y > V$
- II. $W > U$

Solution(6-10):

S6. Ans.(a)

Sol. Conclusion:

- I. $C > A$ (True)
- II. $A \geq C$ (Not True)

S7. Ans.(d)

Sol. Conclusion:

- I. $P > Q$ (Not True)
- II. $Q > M$ (Not True)

S8. Ans.(b)

Sol. Conclusions:

I. $V > S$ (Not True)

II. $V > T$ (True)

S9. Ans.(d)

Sol.Conclusions:

I. $M \geq Q$ (Not True)

II. $Q < M$ (Not True)

S10. Ans.(e)

Sol. Conclusions:

I. $Y > V$ (True)

II. $W > U$ (True)

Directions (11-13): Read the statements carefully and answer the following questions.

Q11. In which of the following expressions will the expression ‘ $H < J$ ’ be definitely true?

(a) $G < H \geq I = J$

(b) $H > G \geq I = J$

(c) $J = I \geq G > H$

(d) $H \geq G > I < J$

(e) None of these

Q12. Which of the following expressions will be true if the expression ‘ $K \geq L > M \geq N$ ’ is definitely true?

(a) $N \leq K$

(b) $K = M$

(c) $K < N$

(d) $L \geq N$

(e) None is true

Q13. Which of the following expressions will be true if the expression ‘ $M \geq K < T = Q$ ’ is definitely true?

(a) $Q < K$

(b) $M \geq T$

(c) $K < Q$

(d) $T = M$

(e) None is true

Solution(11-13):

S11. Ans.(c)

Sol. $J = I \geq G > H$

S12. Ans.(e)

Sol. None is true

S13. Ans.(c)

Sol. $K < Q$

Directions (14-15): In each question, four statements showing relationship have been given, which are followed by three conclusions I, II and III. Assuming that the given statements are true, find out which conclusion(s) is/are definitely true.

Q14. Statements: $F \geq M$, $M > A$, $R < A$, $E > R$

Conclusions: I. $M > E$

II. $F \geq E$

III. $F < E$

(a) Only I follows

(b) Only I & II follow

(c) Only II and III follow

(d) either II or III follows

(e) All follow

Q15. Statements: $A \geq B$, $M > B$, $D < M$, $F = D$

Conclusions: I. $B > D$

II. $B < A$

III. $M > F$

(a) All follow

(b) Only I & II follow

(c) Only II and III follow

(d) Only either II or III follows

(e) Only III follows

Solution(14-15):

S14. Ans.(d)

Sol . I. $M > E$ (false)

II. $F \geq E$ (false)

III. $F < E$ (false)

S15. Ans.(e)

Sol . I. $B > D$ (false)

II. $B < A$ (false)

III. $M > F$ (True)