Directions (1 - 5): Read the following passage carefully and answer the given questions.

A shopkeeper sold three different furniture items viz. Tables, Chairs and Sofa in three different month's viz. April, May and June.

- Total tables sold in April is same as total Sofa sold in June and is also 20 more than total tables and total sofa sold in June and April respectively.
- Total tables sold in May is 20 less than the twice the total tables sold in June and is also 20 more than total chairs sold in May.
- Total chairs sold in April and the total sofa sold in May is same, which is twice the total sofa sold in June.
- Total chairs sold in June is twice the total tables sold in June and the total tables sold all the three months together is 400.
- 1) If the total tables sold in April is 20% more than March which is 25% more than February, then find the total number of tables sold in February?
- a) 75
- b) 120
- c) 80
- d) 160
- e) None of these
- 2) What is the ratio between the total chairs and total sofa sold in all the given months together?
- a) 21: 23
- b) 30: 23
- c) 41: 27
- d) 33: 37
- e) 17: 15
- 3) If total defective tables sold in April, May and June is 20%, 25% and 30% respectively, then find the total non defective tables sold in all the given months?
- a) 452
- b) 253

- c) 519
- d) 301
- e) 316
- 4) Total chairs sold in June is what percentage more/less than the total sofa sold in May?
- a) 16.67%
- b) 14.285%
- c) 12.5%
- d) 11.11%
- e) 33.33%
- 5) If the cost price of a chair in April is Rs. 240. It is increased by 20% in May and 25% in June from May, then find the total amount spends to buy total chairs in all the given months?
- a) Rs. 157860
- b) Rs. 154920
- c) Rs. 165240
- d) Rs. 198520
- e) None of these

Directions (6 - 10): Read the following passage carefully and answer the given questions.

In a shop, there are four different colour water bottles viz. Pink, Green, Yellow and Red placed in three rows viz. R1, R2 and R3. Number of bottles in each row is same.

- Number of pink bottles in R1 is one more than the number of yellow bottles and green bottles in R1 and R3 respectively.
- Number of yellow bottles in R1 is 5 less than the green bottles, yellow bottles and red bottles in R1, R2 and R3 respectively.
- The ratio of the number of green bottles in R2, red bottles in R3 and pink bottles in R3 is 1: 2:
- Number of red bottles in R2 is 90% of number of red bottles in R3.
- The ratio of the number of pink bottles in R2, yellow bottles in R3 and red bottles in R1 is 8: 9: 7.

- Total number of red bottles in R1 and R3 together is 41 from that R1 has one bottle more than R3.
- 6) If two bottles taken from R1, then find the probability of getting at least one pink bottle?
- a) 251/639
- b) 125/639
- c) 254/639
- d) 173/639
- e) 215/639
- 7) What is the ratio between the number of red bottles and number of green bottles in all the three rows?
- a) 51: 62
- b) 59: 45
- c) 49: 51
- d) 63: 48
- e) None of these
- 8) Number of pink bottles in R1 and R2 together is approximately what percentage more/less than the number of vellow bottles in R2?
- a) 80%
- b) 120%
- c) 100%
- d) 75%
- e) 50%
- 9) Find the average number of green bottles in all the given rows?
- a) 15
- b) 12
- c) 9
- d) 18
- e) 21
- 10) What is the difference between the total pink bottles and total yellow bottles?
- a) 8
- b) 10

- c) 5
- d) 15
- e) 12

Directions (11 - 15): Read the following information carefully and answer the given questions.

Ram travels (A) km distance at the speed of x km/hr and reaches his office in 2 hours. If he increases his speed by 20%, he reached (B) hours less than the previous. Shyam travels twice the distance travelled by Ram and reached his office in 6 hours at the speed of 40 km/hr.

Ram carries a bag which contains (\mathbf{x}) green ball, 5 black ball and 10 pink balls. He takes one ball randomly and the probability of getting a pink ball is 1/2. Shyam also carries a bag which contains (x+1) red caps, (x-1) orange caps and 5 brown caps. He also takes one cap and the probability of getting a brown cap is (\mathbf{C}) .

Ram's mother bought a scooter with a discount of 20% on labeled price and he again marks up 25%. She offers at 15% discount and sold it to Ram's friend and gained (**D**) %, if the labeled price of the scooter is Rs. 40000.

- 11) Find the value of (A)
- a) 240
- b) 180
- c) 120
- d) 160
- e) 150
- 12) Find the value of (B)
- a) 24 mins
- b) 20 mins
- c) 12 mins
- d) 36 mins
- e) 40 mins
- 13) Find the value of (x)
- a) 3
- b) 4

- c) 2
- d) 5
- e) 6

14) Find the value of (C)

- a) 1/2
- b) 1/3
- c) 1/5
- d) 1/4
- e) 1/6

15) Find the value of (D)

- a) 8.75%
- b) 13.5%
- c) 15%
- d) 12.5%
- e) 6.25%

Directions (Q. 16 - 20) Study the following information carefully and answer the given questions:

In the year 2015, the salary expense of a company is 16 lakhs and the total number of employees is 80 and in the year 2016, the average salary of employees is Rs. 4000 more than the previous year. The salary expense in 2016 is 20 % more than the previous year. The other expense in the year 2016 is 34 lakhs. The total expense in the year 2015 and 2016 is same. In the year 2017, the number of employees is 5 less than the previous year. The average salary of employees in the year 2017 is Rs. 15000 and the other expense in the year 2017 is Rs. 47.75 lakhs.

Note:

Salary expense = Average salary of employees * Number of employees

Total expense = Salary expense + other expense

- 16) The total expense in the year 2015 is approximately what percentage of total expense in the year 2017?
- a) 110 %
- b) 100 %

- c) 75 %
- d) 90 %
- e) 60 %
- 17) Find the total average salary of employees in all the given years together?
- a) Rs. 59000
- b) Rs. 48000
- c) Rs. 53000
- d) Rs. 56000
- e) None of these
- 18) Find the difference between the number of employees in the year 2015 to that in the year 2017?
- a) 10
- b) 15
- c) 5
- d) 12
- e) None of these
- 19) Find the average other expense in all the given years together?
- a) 39.65 lakhs
- b) 35.72 lakhs
- c) 33.58 lakhs
- d) 41.25 lakhs
- e) None of these
- 20) The total expense in the year 2017 is approximately what percentage more/less than the other expense in the year 2016?
- a) 50 % more
- b) 60 % less
- c) 75 % more
- d) 50 % less
- e) 75 % less

Directions (Q. 21-25) Study the following information carefully and answer the given questions.

The data is related to the number of travelers (National + International) handled by the travelers company in 4 months in a certain year.

The total number of travelers in June is $3/5^{th}$ of total number of travelers in July. Total number of travelers in July is 1250. The ratio of travelers in June to that of July is 4:5. The total number of national travelers in June is 100 less than the total number of travelers in September. The number of international travelers in July is 36 % of total number of travelers in July. The number of international travelers in August is half of the national travelers in July. The number of travelers in August is 225 % of total number of international travelers in August. The ratio of total number of national travelers to that of international travelers in September is 11:6.

- 21) If in the month of October, the total number of travelers is 60 % more than the total number of travelers in August and the ratio of national travelers to international travelers in October is 7: 3, then find the difference between the total number of national travelers to that of international travelers in October?
- a) 524
- b) 550
- c) 576
- d) 592
- e) None of these
- 22) Out of the total number of national travelers (male and female) in June and August together, the ratio of male national travelers to that of female national travelers is 16:9. Find the total number of female national travelers in June and August together?
- a) 450
- b) 480
- c) 510
- d) 530
- e) None of these
- 23) The total number of international travelers in July is approximately what percentage more/less

than the total number of national travelers in August?

- a) 20 % more
- b) 10 % more
- c) 20 % less
- d) 10 % less
- e) 15 % more
- 24) If the average number of national travelers in May, June, July, August and September together is 610, then find the ratio between the total number of national travelers in May to that of total number of international travelers in September?
- a) 4:3
- b) 3:2
- c) 5:6
- d)7:5
- e) None of these
- 25) Total number of international travelers in June is what percentage of total number of international travelers in August?
- a) 62.5 %
- b) 58 %
- c) 71.5 %
- d) 75 %
- e) None of these

Directions (Q. 26 - 30): Study the following information carefully and answer the questions given below:

In an organization, there are 8000 employees. Respective ratio of male and female is 3:2. All the employees are distributed in four different department viz. Sales, HR, IT and Marketing. 30% of the males work in Sales department. 25% of the females work in HR department. Respective ratio of number of males and females work in HR department is 5:2. 10% of the males work in IT department and rest of the males work in Marketing department. Number of females work in IT department is 10% more than the number of males work in IT department. 20% of the females

work in Sales department and rest of the females work in marketing department.

26) Find the total number of employees in marketing department?

- a) 2442
- b) 4323
- c) 2112
- d) 5444
- e) None of these

27) Find the respective ratio of number of males in IT and number of females in HR?

- a) 3:5
- b) 5:3
- c) 2:3
- d) 3:2
- e) None of these

28) Number of males in HR is what percent of number of females in Marketing?

- a) 123.45%
- b) 162.33%
- c) 133.23%
- d) 153.67%
- e) None of these

29) Find the difference between number of employees in Sales and IT?

- a) 2012
- b) 2024
- c) 1072
- d) 1052
- e) None of these

30) Number of females in HR is what percent more than the number of females in Sales?

- a) 23%
- b) 31%
- c) 25%
- d) 22%
- e) None of these

Answers

Directions (1-5):

Total tables sold in April = Total sofa sold in June = x Total tables sold in June = x -20

Total sofa sold in April = x - 20

Total tables sold in May = 2(x-20) - 20 = 2x - 60

Total chairs sold in May = 2x - 60 - 20 = 2x - 80

Total chairs sold in April = Total sofa sold in May =

Total chairs sold in June = 2(x-20) = 2x - 40

Total tables sold in April, May and June = 400

$$(x + x - 20 + 2x - 60) = 400$$

$$4x - 80 = 400$$

$$4x = 480$$

$$X = 120$$

	April	May	June
	100	2 (0	20. 120
Tables	x= 120	2x-60 =	x-20=120 -
		2(120)- 60	20 = 100
		= 240 - 60 =	
		180	
Chairs	2x=2*120 =	2x-80 = 2	2x-40 =
	240	(120)-80	2(120)-40
		= 240 - 80 =	= 240 -40 =
		160	200
Sofa	x-20 = 120 -	2x = 2*120 =	x=120
	20 = 100	240	

1) Answer: $\overline{\mathbf{C}}$

Total tables sold in February be x,

According to the question,

X * 125/100 * 120/100 = 120

x = 120 * 100/120 * 100/125

x = 80

2) Answer: B

Required ratio = (240+160+200) : (100+240+120) = > 600: 460 = 30: 23

3) Answer: D
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Total number of non – defective tables

$$= > 120 * 80/100 + 180 * 75/100 + 100 * 70/100$$

$$=>96+135+70=301$$

4) Answer: A

$$=>(40/240)*100=16.67\%$$

5) Answer: E

Total amount (April) =
$$240 * 240 = 57600$$

Total amount (May) =
$$240 * 120/100 * 160 = 46080$$

Total amount (June) =
$$240 * 120/100 * 125/100 * 200$$

$$=72000$$

Required total =
$$57600 + 46080 + 72000 =$$
Rs. 175680

Directions (6 - 10):

Number of pink bottles in R1 = x

Number of yellow bottles in R1 = x-1

Number of green bottles in R3 = x-1

Number of green bottles in R1 = (x-1) + 5 = x+4

Number of yellow bottles in R2 = (x-1) + 5 = x+4

Number of red bottles in R3 = (x-1) + 5 = x+4

Ratio of the number of green bottles in R2, red bottles

in R3 and pink bottles in R3 = 1: 2: 1 = y: 2y: y

Number of red bottles in R3 = $x+4 = 2y \Rightarrow y = (x+4)/2$

Number of green bottles in R2 = y = (x+4)/2

Number of pink bottles in R3 = y = (x+4)/2

Number of red bottles in R2 = 90/100 * Number of red

bottles in R3

= 90/100 * (x+4)

= 9/10 * (x+4)

Ratio of the number of pink bottles in R2, yellow bottles in R3 and red bottles in R1 = 8: 9: 7 = 8z: 9z:

7z --- (1)

Number of red bottles in R1 and R3 = 41 - (2)

Number of red bottles in R1 = Number of red bottles in R3 + 1

Number of red bottles in R1 - Number of red bottles in

R3 = 1 - - (3)

Solve the equation (2) and (3), we get

Number of red bottles in R1 = 21 and Number of red bottles in R3 = 20

Substitute the value in equation (1)

Number of red bottles in $R1 = 21 = 7z \Rightarrow z = 3$

Number of pink bottles in R2 = 8z = 8*3 = 24

Number of yellow bottles in R3 = 9z = 9*3 = 27

Number of red bottles in R3 = 20 = x+4 => x = 20-4x=16

	Pink	Green	Yellow	Red
R1	x= 16	x+4=16+4	x-1=16-1	21
		=20	=15	
R2	24	(x+4)/2	x+4 = 16	9/10 *
		= (16+4)/2	+ 4 = 20	(x+4)
		= 10		=
				(9/10)*20
				= 18
R3	(x+4)/2	x-1=16-1	27	x+4=
	=	= 15		16+4 = 20
	(16+4)/2			
	= 10			

Total number of bottles in each row is 72.

6) Answer: C

Required probability = 1 - Probability of none is pink

 $= > 1 - 56c_2/72c_2$

=>1-(56*55/72*71)

=>1-385/639

=>(639-385)/639

=>254/639

7) Answer: B

Required ratio = (21+18+20): (20+10+15) = 59: 45

8) Answer: C

Required percentage = [(16+24)-20]/20 * 100

= 20/20 * 100 = 100%

9) Answer: A

Required average = (20+10+15)/3

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10) Answer: E

Required difference = (15+20+27) - (16+24+10)= 62-50=12

Directions (11-15):

Total distance travelled by Shyam = 6 * 40 = 240 kmTotal distance travelled by Shyam = 2 * Total distance travelled by Ram

240 = 2* Total distance travelled by Ram

240/2 = >120 = Total distance travelled by Ram (A)

Speed of Ram = 120/2 = 60 km/hr

New speed of Ram = 60 * 120/100 = 72 km/hr

New time taken by Ram to cover the same distance =

120/72 =1 hr 40 minutes

Required time = 2 hrs - 1 hr 40 minutes = 20 minutes= (1/3) hour (B)

Total number of balls in Ram's bag is (15 + x)

Given probability = $> 1/2 = 10C_1/(15+x)C_1$

1/2 = 10/(15+x)

20 = 15 + x = > x = 5 green balls

Number of red, orange and brown caps in Shyam's bag is 6, 4 and 5 respectively.

Required probability = $5C_1/15C_1 = 5/15 = 1/3$ (C)

Labeled price of a scooter = 40000

CP of the scooter = 40000 * 80/100 = 32000

Marked price of the scooter = 32000 * 125/100 = 40000

Selling price of the scooter = 40000 * 85/100 = 34000

Profit percentage = (34000 - 32000)/32000 * 100

= > 2000/32000 * 100 = 6.25% (D)

11) Answer: C

Total distance travelled by Ram = 120(A)

12) Answer: B

Required time = 2 hrs-1 hr 20 minutes = 20 minutes(B)

13) Answer: D

x = 5 green balls

14) Answer: B

Required probability = $5C_1/15C_1 = 5/15 = 1/3$ (C)

15) Answer: E

Profit percentage = [(34000 - 32000)/32000] * 100= (2000/32000) * 100 =**6.25%**(**D**)

Directions (16 - 20):

Explanation:

In the year 2015,

The salary expense of a company = 16 lakhs

The total number of employees = 80

Average salary of employees = 1600000/80 = Rs. 20000

In the year 2016,

The average salary of employees = Rs. 1000 + Average salary of employees in 2015

= > 4000 + 20000 =Rs. 24000

The salary expense in 2016 = (120/100)*16 = 19.2 lakhs

The other expense in the year 2016 = 34 lakhs

Total expense in the year 2016 = 19.2 + 34 = 53.2

The number of employees in 2015 = 1920000/24000 = 80

The total expense in the year 2015 and 2016 is same. So.

The total expense in the year 2015 = 53.2 lakhs

The other expense in the year 2015 = 53.2 - 16 = 37.2 lakhs

The average salary of employees in the year 2017 = Rs. 15000

The other expense in the year 2017 = Rs. 47.75 lakhs

The number of employees in 2017 = 80 - 5 = 75

The salary expense in 2017 = 75*15000 = 11.25 lakhs

The total expense in the year 2017 = 47.75 + 11.25 = 59 lakhs

Yea	Averag	Numbe	Salar	Other	Total
r	e salary	r of	y	expen	expen
	of	employ	expen	se	se
	employ	ees	se	(In	(In

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	ees		(In	lakhs)	lakhs)
	(In Rs.)		lakhs)		
201	20000	80	16	37.2	53.2
5					
201	24000	80	19.2	34	53.2
6					
201	15000	75	11.25	47.75	59
7					

16) Answer: D

The total expense in the year 2015 = 53.2 lakhs The total expense in the year 2017 = 59 lakhs Required % = (53.2/59)*100 = 90 %

17) Answer: A

The total average salary of employees in all the given years together

$$= > 20000 + 24000 + 15000 =$$
Rs. 59000

18) Answer: C

The number of employees in the year 2015 = 80The number of employees in the year 2017 = 75Required difference = 80 - 75 = 5

19) Answer: A

The average salary expense in all the given years together

$$=>(37.2+34+47.75)/3$$

$$= > 118.95/3 = 39.65$$
 lakhs

20) Answer: C

The total expense in the year 2017 = 59The other expense in the year 2016 = 34

Required % = [(59 - 34)/34]*100 = 75 % more

Directions (Q. 21 - 25)

Explanation:

Total number of travelers in July = 1250

The total number of travelers in June = (3/5)*total number of travelers in July

$$=>(3/5)*1250=750$$

The ratio of travelers in June to that of July = 4:5 (4x, 5x)

$$5x = 1250$$

$$X = 250$$

Total number of travelers in June = 4x = 1000

The total number of national travelers in June = 100 less than the total number of travelers in September = > 750 = Total travelers in September – 100

Total number of travelers in September = 750 + 100 = 850

The number of international travelers in July = (36/100)*total number of travelers in July.

The number of international travelers in July = (36/100)*1250 = 450

The number of national travelers in July = 1250 - 450= 800

The number of international travelers in August = (1/2)*National travelers in July

$$=>(1/2)*800=400$$

The number of travelers in August = (225/100)*total number of international travelers in August

$$=>(225/100)*400=900$$

The number of national travelers in August = 900 - 400 = 500

The ratio of total number of national travelers to that of international travelers in September = 11 : 6 (11x, 6x)

$$17x = 850$$

$$X = 50$$

The total number of national travelers in September = 11x = 550

The total number of international travelers in September = 6x = 300

Month	National	International	onal Total	
	travelers	travelers	travelers	
June	750	250	1000	
July	800	450	1250	
August	500	400	900	
September	550	300	850	

21) Answer: C

The total number of travelers in October = (160/100)*the total number of travelers in August = > (160/100)*900 = 1440

The ratio of national travelers to international travelers in October

$$=>7:3(7x,3x)$$

$$10x = 1440$$

$$X = 144$$

The difference between the total number of national travelers to that of international travelers in October = 4x = 144*4 = 576

22) Answer: a)

The total number of national travelers (male and female) in June and August together

$$= > 750 + 500 = 1250$$

The ratio of male national travelers to that of female national travelers

$$= > 16:9(16x, 9x)$$

$$25x = 1250$$

$$X = 50$$

The total number of female national travelers in June and August together

$$=>9x=9*50=450$$

23) Answer: **d)**

The total number of international travelers in July = 450

The total number of national travelers in August = 500Required % = [(500 - 450)/500]*100 = 10 % less

24) Answer: b)

The average number of national travelers in May, June, July, August and September together = 610

Departments	Males	Females
Sales	1440	640
IT	480	528
HR	2000	800
Marketing	880	1232

The total number of national travelers in May, June, July, August and September together = 610*5 = 3050The total number of national travelers in May = > 3050 - (750 + 800 + 500 + 550) = 450

The total number of international travelers in September = 300

Required ratio = 450 : 300 = 3 : 2

25) Answer: a)

Total number of international travelers in June = 250 Total number of international travelers in August = 400

Required % = (250/400)*100 = 62.5 %

Directions (26 - 30):

Total number of employees = 8000

Number of male employees = 8000 * 3/5 = 4800

Number of female employees = 8000 * 2/5 = 3200

No. of male employees in sales department = 4800 * 30/100 = 1440

No of females in HR department = 25/100 * 3200 = 800

No of males in HR department =800/2 * 5 = 2000No of males in IT department = 10/100 * 4800 = 480Number of males in Marketing department = 4800 - (1440+2000+480)

= 880

No of females in IT department = 110/100 * 480 = 528No of females in sales department = 20/100 * 3200 = 640

No of females in Marketing department =3200 - (800+528+640)

= 1232

26) Answer: C

Total number of employees in marketing department = 880 + 1232 = 2112

27) Answer: A

Required ratio = 480: 800 = 3:5

28) Answer: B

Required percentage = $(2000/1232) \times 100 = 162.33\%$

29) Answer: C

Number of employees in Sales = 1440 + 640 = 2080Number of employees in IT = 480 + 528 = 1008Required difference = 2080 - 1008 = 1072

30) Answer: C

Required percentage = $(800 - 640)/640 \times 100 = (160/640) \times 100 = 25\%$



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