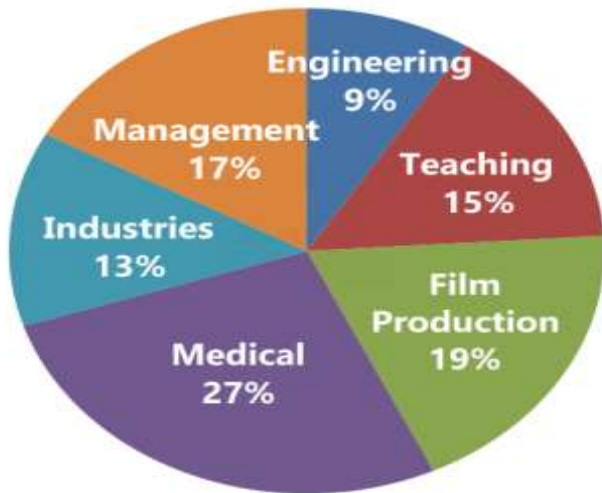


DATA INTERPRETATION

Directions: The pie-chart given here shows Percentage-wise Distribution of Employees in Six Different Professions. Study the following graph carefully & answer the questions given below it.



Total Number of Employees = 26800

1. What is the difference between the total number of employees in teaching and medical profession together and the number of employees in management profession?

- A. 6770
- B. 7700
- C. 6700
- D. 7770
- E. 7670

2. In management profession three-fourth of the number of employees are female. What the number of male employees in management profession?

- A. 1239
- B. 1143
- C. 1156
- D. 1289
- E. 1139

3. 25% of employees from film production profession went on a strike. What is the number of employees from film production who have not participated in the strike?

- A. 3271
- B. 3819
- C. 3948

D. 1273

E. 1246

4. What is the total number of employees in engineering profession and industries together?

A. 5698

B. 5884

C. 5687

D. 5896

E. 5487

5. In teaching profession if three-fifth of the teachers are not permanent, what is the number of permanent teachers in the teaching profession?

A. 1608

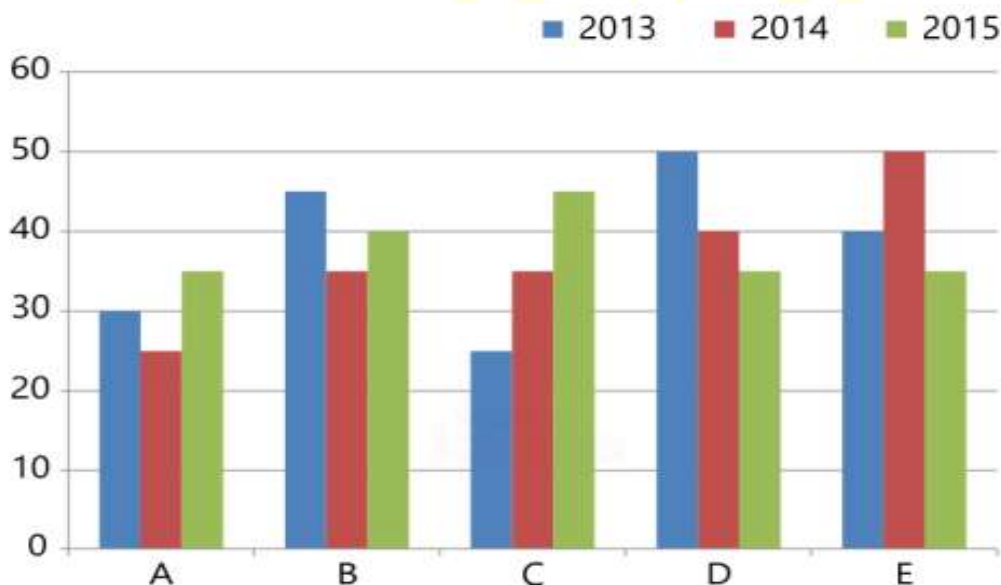
B. 1640

C. 1764

D. 1704

E. 1686

Directions: Study the graph carefully and answer the following questions. The production of tea (in tons) by the different companies for three years 2013, 2014 and 2015 respectively.



6. The total production of five companies in 2015 is what per cent of the total production by Company B and D together in 2013?

A. 100%

B. 150%

C. 175%

D. 200%

E. 225%

7. What is the ratio of the production by Company B in the given three years to the production by Company C in the given three years?

A. 6 : 7

B. 8 : 7

C. 7 : 8

D. 7 : 6

E. None of these

8. For which company was the rise or fall in the production of tea from 2013 to 2014 the maximum?

A. A

B. B

C. C

D. D

E. E

9. The production of tea of Company E in the year 2013 is approximately what per cent of the total production of Company C in all the given years?

A. 32.5%

B. 45%

C. 38%

D. 45.5%

E. None of these

10. The ratio of the average production of all the companies in 2013 to that of all the companies 2014 is

A. 38 : 37

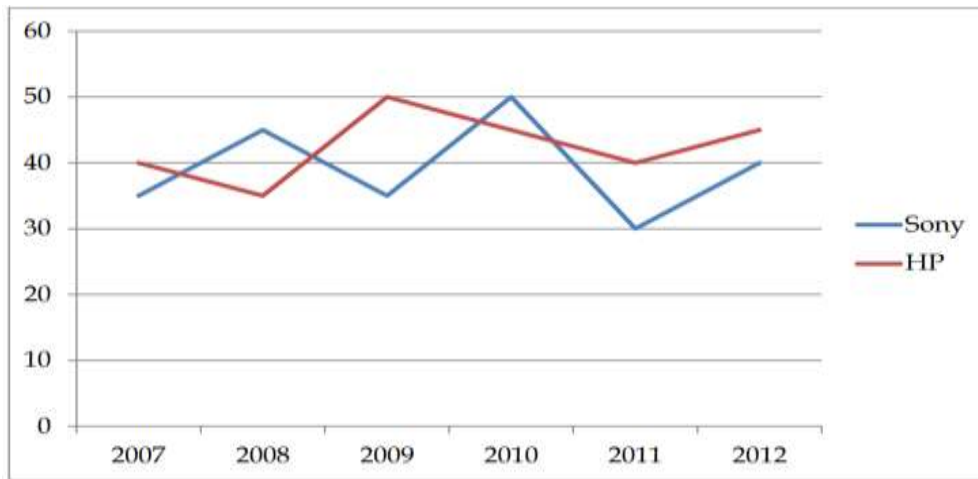
B. 37 : 38

C. 37 : 39

D. 39 : 37

E. None of these

Directions: Study the following graph carefully and answer the questions given below it. Percentage of profit earned by two companies Sony and H.P. over the given years.



11. Expenditure of Company HP in 2008 and 2009 are Rs. 12 lakhs and Rs. 14.5 lakh respectively. What was the total income of Company B in 2008 and 2009 together (in lakh rupees)?

- A. 35 lac
- B. 37.65 lac
- C. 40 lac
- D. 37.95 lac
- E. None of these

12. Ratio of expenditure of companies Sony and HP in 2011 was 3 : 4 respectively. What was the respective ratio of their incomes in 2011?

- A. 2 : 3
- B. 23 : 37
- C. 43 : 56
- D. 29 : 46
- E. 39 : 56

13. Total expenditure of Company Sony in all the years together was 82.5 lakhs. What was the total income of the Company in all the years together?

- A. 38 lac
- B. 40 lac
- C. 45 lac
- D. Cannot determined
- E. None of these

14. If the expenditures of Companies Sony and HP in 2012 were equal and the total income of the two companies was Rs. 5.7 lakh, What was the total expenditure of the two companies in 2012?

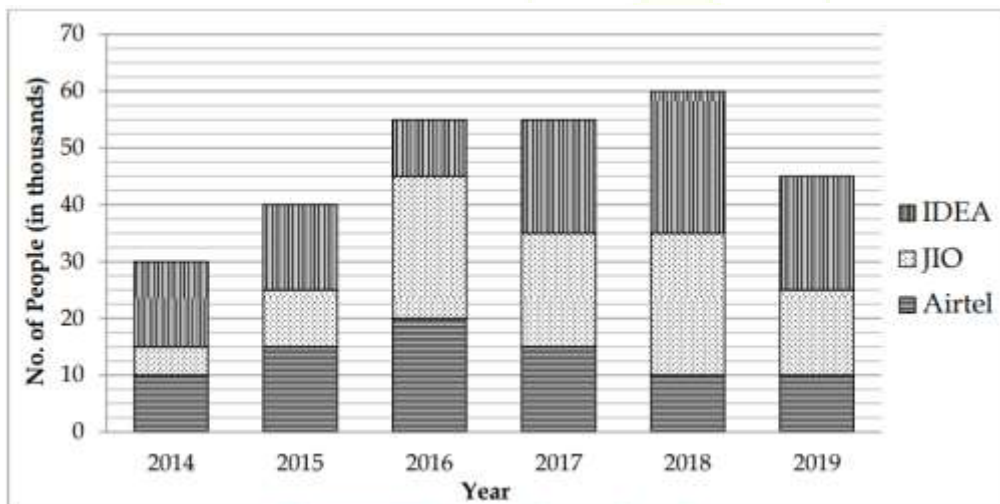
- A. 4 lac

- B. 5 lac
- C. 6 lac
- D. 8 lac
- E. 10 lac

15. If the income of Company HP in 2009 and 2010 were in the ratio of 2 : 3 respectively. What was the respective ratio of expenditure of that Company in these two years?

- A. 2 : 3
- B. 4 : 5
- C. 29 : 45
- D. 39 : 55
- E. None of these

Directions: Study the given graph carefully to answer the questions that follow:



16. What is the average number of people using mobile service of JIO for all the years together?

- A. $16 \frac{2}{3}$
- B. $14 \frac{4}{6}$
- C. $16 \frac{2}{3}$
- D. $14 \frac{1}{6}$
- E. None of these

17. The total number of people using all the three mobile services in the year 2017 is what percent of the total number of people using all the three mobile services in the year 2018?(rounded off to two digits after decimal)

- A. 89.72
- B. 93.46

- C. 88.18
- D. 91.67
- E. None of these

18. The number of people using mobile service of Idea in the year 2016 forms approximately what per cent of the total number of people using all the three mobile services in that year?

- A. 18
- B. 26
- C. 11
- D. 23
- E. 29

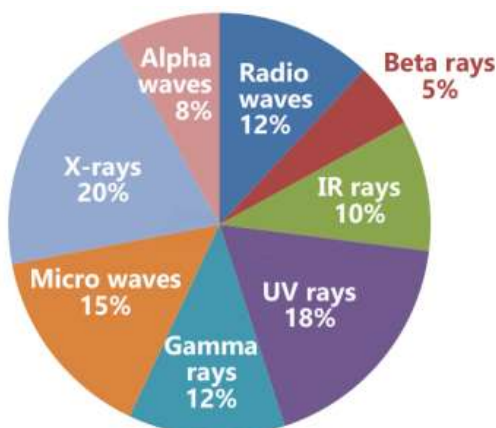
19. What is the ratio of the number of people using mobile service of AIRTEL in the year 2015 to that of those using the same service in the year 2014?

- A. 8 : 7
- B. 3 : 2
- C. 19 : 13
- D. 15 : 11
- E. None of these

20. What is the total number of people using mobile service of JIO in the years 2018 and 2019 together?

- A. 35,000
- B. 30,000
- C. 45,000
- D. 25,000
- E. None of these

Directions: Study the following graph carefully & answer the questions given below it.



Constituents of sun rays received in 1 minute

Total sun rays received in 1 minute = 3600 units

21. If the human body withstands a maximum 8750 units of IR rays when exposed to the sun continuously, then what is the maximum time that anyone can stand in the sun without crossing the threshold limit of IR rays?

- A. 24.3 minutes
- B. 45 minutes
- C. 20 minutes
- D. 15 minutes
- E. 30 minutes

22. The amount of UV rays received in 5 mins is how many time the amount of IR rays received in 2 mins?

- A. 4
- B. 2.1
- C. 4.5
- D. 3.6
- E. 5.2

23. If presently the ozone layer in the same atmosphere reflects 55% of the sun rays then what would be the amount of Gamma rays received in one minute, If the ozone layer were to disappear completely?

- A. 342
- B. 432
- C. 531
- D. 135
- E. 351

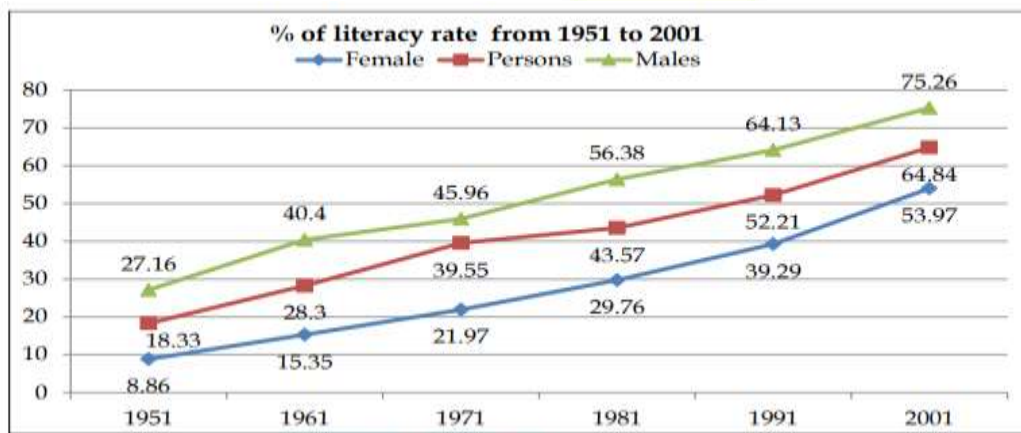
24. The amount of microwaves received in 4 mins is how much more/less that the amount of Alpha rays received in 3 minutes?

- A. 1435
- B. 1142
- C. 1378
- D. 1296
- E. 1526

25. How many minutes of exposure to the sun in a day would be enough to ensure that the body receives enough amount of vitamin D, given that the body requires 40 units of vitamin D every day and that 30 units of Beta rays generate 1 unit of vitamin D?

- A. 4
- B. 3
- C. 5
- D. 6
- E. 7

Directions: Study the following line graph carefully and answer the questions given below.



26. What is the approx difference between the percentage literacy rate increased in male from 1951 to 1991 and percentage literacy rate increased in female from 1971 to 2001.

- A. 15%
- B. 10%
- C. 5%
- D. 20%
- E. 2%

27. In which of the census years percentage increase given in male literacy rate was the highest with respect to previous census year?

- A. 1981
- B. 1991
- C. 2001
- D. 1961
- E. None of these

28. In which of the given census years was the percentage increase in the literacy rate of females the lowest with respect to that of previous census year?

- A. 1981
- B. 1991
- C. 2001
- D. Data inadequate
- E. None of these

29. In which of the given census years was the percentage increase in the number of males the highest with respect to the previous census year?

- A. 1981
- B. 1991
- C. 2001
- D. Data inadequate
- E. None of these

30. What is the ratio of percentage literacy rate increased of male from (1961-1981) to literacy rate increased of person in 1971?

- A. 1 : 1
- B. 1 : 2
- C. 2 : 1
- D. 1 : 3
- E. 3 : 1

Directions: Study the following table chart carefully and answer the questions given beside: The following table represents marks obtained by five students in five different subjects. Maximum marks of each subject is 100.

| Students | Mathematics | Science | English | Hindi | Social Science |
|----------|-------------|---------|---------|-------|----------------|
| Reena | 56 | 94 | 85 | 80 | 86 |
| Tina | 98 | 56 | 66 | 70 | 48 |
| Meena | 75 | 72 | 78 | 64 | 84 |
| Geeta | 92 | 88 | 86 | 82 | 52 |
| Sita | 68 | 90 | 94 | 92 | 54 |

31. What is the total marks obtained by all the students in English?

- A. 420
- B. 409
- C. 305
- D. 506
- E. None of these

32. Marks obtained by Reena in all the subjects together is what percent more/less than the marks obtained by Meena in all the subjects together?

- A. 7.506% less
- B. 8.504% less
- C. 7.506% more
- D. 8.504% more
- E. None of these

33. Find the percentage of marks obtained by Geeta in all the subjects together.

- A. 55%
- B. 60%
- C. 75%
- D. 80%
- E. None of these

34. Find the respective ratio of marks obtained by Meena in Mathematics and Science together and marks obtained by Sita in English and Hindi together.

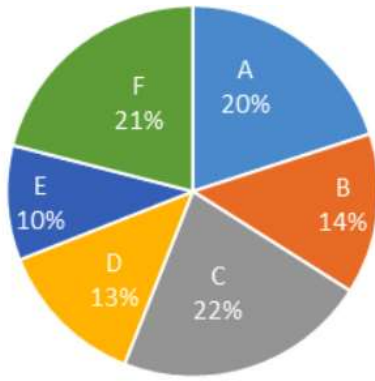
- A. 52 : 39
- B. 49 : 62
- C. 39 : 52
- D. 62 : 49
- E. None of these

35. Marks obtained by all the students in English is what percent of the marks obtained by all the students in Social Science?

- A. 126.23%
- B. 134.35%
- C. 154.32%
- D. 168.45%
- E. None of these

Direction: Study the following pie chart and table chart carefully and answer the questions based on it.

There are six companies, namely A, B, C, D, E and F, which produce two models (M1 and M2) of an item. The given pie-chart shows the percentage distribution of total production cost while making the mentioned items by the given six companies and the table shows the ratio of production of M1 to that of M2 and the percentage of profit earned on these items. (Total production cost of the six companies is Rs. 3.2 crore.)



| Company | Ratio of production | | % profit earned | |
|---------|---------------------|----------------|------------------|------------------|
| | M ₁ | M ₂ | %P _{M1} | %P _{M2} |
| A | 13 | 7 | 25% | 32% |
| B | 9 | 5 | 28% | 30% |
| C | 6 | 5 | 20% | 24% |
| D | 6 | 7 | 35% | 25% |
| E | 2 | 3 | 24% | 21% |
| F | 11 | 10 | 30% | 20% |

36. What is the total profit earned by Company A on model M1 (in Rs. crore)?

- A. 0.124
- B. 0.112
- C. 0.104
- D. 0.140
- E. 0.122

37. What is the total profit earned by Company B and Company C together on model M2 (in Rs. crore)

- A. 0.1248
- B. 0.1284
- C. 0.1288
- D. 0.1244
- E. None of these

38. What is the ratio of the cost of production of model M1 of Company D to that of model M2 of Company F?

- A. 4 : 5
- B. 3 : 5
- C. 5 : 7
- D. 4 : 7
- E. 1 : 2

39. What is the difference between the profit earned by Company C on model M1 and the profit earned by Company E on model M2? (in Rs. crore)

- A. 0.72768

- B. 0.74268
- C. 0.73428
- D. 0.77258
- E. None of these

40. The percentage profit earned by Company B on model M1 is what percentage of the percentage profit earned by Company D on model M2.

- A. 144%
- B. 156%
- C. 133%
- D. Data inadequate
- E. None of these

Directions: Study the following information carefully and answer the questions given beside: The table below shows the number of users from different Network companies over the years,

| State | Total Population | Rural : Urban | Male : Female | Literate : Illiterate | % Graduate out of Literates |
|-------------|------------------|---------------|---------------|-----------------------|-----------------------------|
| Maharashtra | 22,50,000 | 28 : 17 | 23 : 22 | 5 : 3 | 48 |
| MP | 16,42,000 | 5 : 3 | 5 : 3 | 3 : 1 | 45 |
| Odisha | 11,36,000 | 11 : 5 | 9 : 7 | 11 : 5 | 38 |
| West Bengal | 24,80,000 | 18 : 13 | 21 : 19 | 20 : 11 | 42 |
| Tamil Nadu | 20,50,000 | 16 : 9 | 13 : 12 | 3 : 2 | 56 |
| Uttaranchal | 2,48,000 | 5 : 3 | 9 : 7 | 3 : 1 | 44 |
| Jharkhand | 9,60,000 | 17 : 7 | 11 : 9 | 4 : 1 | 32 |

41. The urban population of Maharashtra and Odisha together is what per cent of the total population of these two states? (Rounded off to two digits after decimal)

- A. 32.49
- B. 35.59
- C. 38.55
- D. 32.85
- E. 36.57

42. Approximately, by what per cent is the urban population of Maharashtra less than its rural population?

A. 33

B. 39

C. 49

D. 45

E. 34

43. What per cent of the total population of West Bengal, Odisha and Madhya Pradesh together is illiterate? (Rounded of to nearest integer)

A. 28

B. 34

C. 29

D. 33

E. 31

44. What is the difference between the number of graduates from Madhya Pradesh and Uttaranchal?

A. 3,66,340

B. 4,72,335

C. 3,88,185

D. 4,82,340

E. 4,55,840

45. What is the total no. of graduates from Odisha, West Bengal and Maharashtra together?

A. 15,09,695

B. 15,29,559

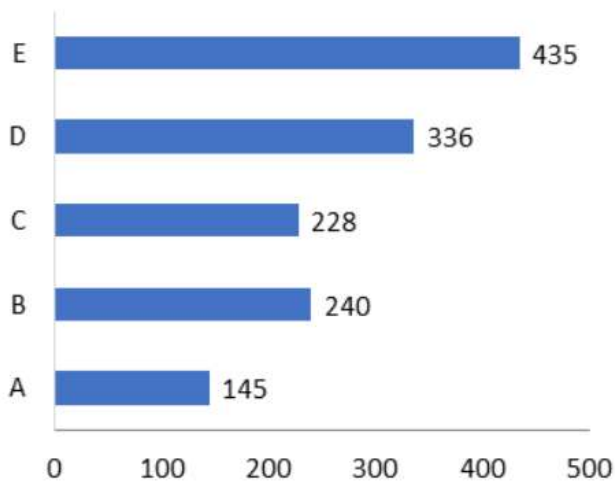
C. 16,43,780

D. 16,19,455

E. 16,29,095

Directions : Study the following bar and table chart carefully and answer the questions given beside.

The bar graph given below gives the information about the total runs scored by top five players in the Asia cup tournament 2018. The table given below gives the information about batting strike rate of each player in the tournament.



| Player | A | B | C | D | E |
|---------------------|-----------------|----|-----|-----|-----|
| Batting Strike Rate | $48\frac{1}{3}$ | 75 | 200 | 150 | 125 |

Batting strike rate = (Total runs scored \times 100) / Total balls faced

46. The number of balls faced by the player C was how many less than that by Player D?
- 115
 - 120
 - 110
 - 95
 - None of these
47. What was the average of the number of balls faced by all the players together?
- 265.8
 - 261.2
 - 248.6
 - 272.4
 - None of these
48. Which of the following player had faced highest number of balls?
- B
 - A
 - E
 - D
 - C

49. If we combine the scores of A and E together then approximately what will be the new strike rate?

- A. 85
- B. 100
- C. 110
- D. 90
- E. 94

50. What is the difference between the average of runs scored by all the players together to the average of balls faced by all the players together?

- A. 15.6
- B. 14.4
- C. 18.8
- D. 24.6
- E. None of these

Answers:

1. C

Solution: Percentage of employees in Teaching = 15%

Percentage of employees in Medical = 27%

Percentage of employees in Management = 17%

As per the question,

Total percentage of employees in teaching and medical = 15% + 27% = 42%.

Now, difference between total employees in teaching and medical and total employees in management = (42% - 17%) of 26800 = 25% of 26800

= $(25/100) \times 26800 = 6700$.

2. E

Solution: Total employees in management = 17% of 26800

Now, Female employees = $3/4$ th, then men = $1 - 3/4$ th = $1/4$ th.

\therefore Male employees = $(1/4) \times 17\%$ of 26800 = 1139.

3. B

Solution: Total number of employees in Film production = 19% of 26800

Number of employees that did not go on strike = $100 - 25 = 75\%$

= $3/4$ th part

Reqd. no. of employees = $(3/4) \times (19/100) \times 26800 = 3819$.

4. D

Solution: Total percentage of Employees engineering and Industries = $9\% + 13\% = 22\%$

So, Total employees in engineering and industries

= $26800 \times (22/100) = 5896$.

5. A

Solution: Total number of employees in Teaching = 15% of 26800

Not permanent teachers = $3/5$ th, then permanent teachers

= $1 - 3/5 = 2/5$ th.

\therefore Number of permanent teachers

= $2/5 \times 15\%$ of 26800

= $2/5 \times 15/100 = 1608$.

6. D

Solution: Total production in 2015 = $35 + 40 + 45 + 35 + 35 = 190$

Total production of B and D in 2013 = $45 + 50 = 95$

Reqd. % = $(190/95) \times 100 = 200\%$

7. B

Solution: Reqd. ratio = $120/105$

= $8/7$

= $8 : 7$

8. C

Solution: For Company A, the fall% = $5/30 \times 100 = 16.67\%$

Similarly, for B, the fall% = $10/45 \times 100 = 22.3\%$

for C, the rise% = $10/25 \times 100 = 40\%$

for D, the fall% = $10/50 \times 100 = 20\%$

for E, the rise = $10/40 \times 100 = 25\%$

Clearly, the maximum rise in production of Company C.

9. C

Solution: Production of tea of Company E in 2013 = 40

Total production of tea of Company C in all the given years = $25 + 35 + 45 = 105$

\therefore Req'd. % = $(40/105) \times 100 = 38.09\% \approx 38\%$

10. A

Solution: Average production in 2013

$$= (30 + 45 + 25 + 50 + 40)/5$$

$$= 190/5 = 38$$

Average production in 2014

$$= (25 + 35 + 35 + 40 + 50)/5$$

$$= 185/5$$

$$= 37$$

11. D

Solution: Income of HP = I_1 in 2008

$$\therefore 35 = (I_1 - 12)/12 \times 100$$

$$I_1 = \text{Rs. } 16.2 \text{ L}$$

In 2009, Let Income = I_2

$$\therefore 50 = (I_2 - 14.5)/14.5 \times 100$$

$$I_2 = 21.75 \text{ L}$$

$$\therefore \text{total income} = 21.75 \text{ L} + 16.2 \text{ L} = 37.95 \text{ L}$$

12. E

Solution: Let the respective expenditures of both Sony and HP be Rs. $3x$ and Rs. $4x$ lakhs.

$$\therefore I_{\text{Sony}} \text{ in 2011} \Rightarrow 30 = (I_1 - 3x)/3x \times 100$$

$$\text{or, } I_1 = 3.9x$$

$$\text{Again,}_{HP} \text{ in 2011} \Rightarrow 40 = (I_2 - 4x)/4x \times 100$$

$$\Rightarrow I_2 = 5.6x$$

$$\text{Desired ratio} \Rightarrow I_{\text{Sony}} : I_{HP} = 3.9x : 5.6x$$

$$= 39 : 56$$

13. D

Solution: It can't be determined as data given are inadequate.

14. A

Solution: Let expenditure of both Sony and HP in 2012 be Rs. x lakhs & their respective incomes be Rs. I_1 & I_2 lakhs.

$$\therefore \text{Profit\% for Sony} = 40$$

$$\& \text{Profit\% for HP} = 45$$

$$\therefore 40 = (I_1 - x)/x \times 100 \dots (i)$$

$$\& 45 = (I_2 - x)/x \times 100 \dots (ii)$$

From (i) and (ii)

$$x = \text{Rs. } 2L$$

$$\therefore \text{Total expenditure} = 2 \times 2 = \text{Rs. } 4 \text{ lakh}$$

15. C

Solution: Let the income be Rs. $2x$ and Rs. $3x$ lakhs respectively in 2009 and 2010 for HP.

\therefore In 2009,

$$50 = \{(2x - E_1)/E_1\} \times 100$$

$$\Rightarrow 1.5 E_1 = 2x$$

$$\Rightarrow E_1 = 2x/1.5 \text{ Lakh}$$

In 2010,

$$45 = \{(3x - E_2)/E_2\} \times 100$$

$$\Rightarrow E_2 = (3x/1.45)$$

$$\therefore (2x/1.5) : (3x/1.45) = 29 : 45$$

16. C

Solution: Average = $1/6 \times [5 + 10 + 25 + 20 + 25 + 15] \times 1000$

$$= 100000/6$$

$$= 16666 \frac{2}{3}$$

17. D

Solution: Required % = $(55/60) \times 100 = 91.67\%$

18. A

Solution: Required % = $(10/55) \times 100 = 18\%$

19. B

Solution: Required Ratio = $15 : 10 = 3 : 2$

20. E

Solution: Required no. of people = $(25 + 15) \times 1000 = 40000$

21. A

Solution: Total IR rays received in 1 minute

$$= 3600 \times (10/100) = 360 \text{ units}$$

Time taken to receive 8750 units of IR

$$= (8750/360) \text{ minutes} = 24.3 \text{ minutes}$$

22. C

Solution: Amount of UV rays received in 5 mins

$$= 3600 \times (18/100) \times 5 = 3240 \text{ units}$$

Amount of IR rays received in 2 minutes

$$= 3600 \times (10/100) \times 2 = 720 \text{ units}$$

Amount of UV rays in 5 minutes of sun rays,

$$= (3240/720)$$

= 4.5 times the amount of IR rays received in 2 mins.

23. B

Solution: The amount of Gamma rays received when the ozone layer cover to completely disappears = 100%

The amount of Gamma rays received in one minute if the ozone layer were to completely disappear,

$$= 3600 \times (12/100) \text{ units} = 432 \text{ units}$$

24. D

Solution: Amount of Microwaves received in 4 mins

$$= 3600 \times (15/100) \times 4 = 2160 \text{ units}$$

Amount of Alpha rays received in 3 minutes

$$= 3600 \times (8/100) \times 3 = 864 \text{ units}$$

\therefore Amount of Microwave received in 4 mins is $(2160 - 864) \text{ units} = 1296 \text{ units}$ more than the amount of Alpha rays received in 3 mins.

25. D

Solution: Given, that the body requires 40 units of vitamin D every day.

To generate 1 unit of vitamin D, requirement of Beta rays = 30

To generate 40 units of vitamin D, requirement of Beta rays = $(30 \times 40) = 1200 \text{ units}$

Now, in 1 minute

$$= 3600 \times (5/100)$$

= 180 units Beta rays are received.

\therefore 180 units Beta rays are received in 1 minute

\therefore 1200 units Beta rays received in

$$(1/180) \times 1200 = 120/18 = 6(2/3) \text{ minutes.}$$

26. B

Solution: Required difference = $\{(53.97-21.97)/21.97\} \times 100 - \{(64.13-27.16)/27.16\} \times 100$

$$= (32/21.97 \times 100) - (36.97/27.16 \times 100)$$

$$\approx 146 - 136$$

$$\approx 10\%$$

27. D

Solution: Percentage increase in the literacy rate of male in

$$1961 = 48.74\%$$

$$1971 = 13.76\%$$

$$1981 = 22.67\%$$

$$1991 = 13.74\%$$

$$2001 = 17.35\%$$

$$\therefore \text{Required year} = 1961$$

28. B

Solution: Percentage increase in the literacy rate of female

$$\text{In } 1961 = 73.25\%$$

$$\text{In } 1971 = 43.12\%$$

$$\text{In } 1981 = 35.45\%$$

$$\text{In } 1991 = 32.02\%$$

$$\text{In } 2001 = 37.36\%$$

29. D

Solution: Since, the number of males are not specified, we can not get the required value.

30. A

Solution: Required ratio = $\{(56.38-40.4)/40.4 \times 100\} : 39.55$

$$= 39.55 : 39.55$$

$$= 1 : 1$$

31. B

Solution: Total marks obtained by all the students in English = $85 + 66 + 78 + 86 + 94 = 409$

32. C

Solution: Marks obtained by Reena in all the subjects together = $56 + 94 + 85 + 80 + 86 = 401$

Marks obtained by Meena in all the subjects together = $75 + 72 + 78 + 64 + 84 = 373$

Reqd. % = $\{(401 - 373)/373\} \times 100$

= $(28/373) \times 100 = 7.506\%$ more

33. D

Solution: Total marks = $5 \times 100 = 500$

Total marks obtained by Geeta in all the subjects together = $92 + 88 + 86 + 82 + 52 = 400$

Reqd. % = $(400/500) \times 100 = 80\%$

34. B

Solution: Marks obtained by Meena in Mathematics and Science together = $75 + 72 = 147$

Marks obtained by Sita in English and Hindi together = $94 + 92 = 186$

Required ratio = $147 : 186 = 49 : 62$

35. A

Solution: Marks obtained by all the students in English = $85 + 66 + 78 + 86 + 94 = 409$

Marks obtained by all the students in Social Science = $86 + 48 + 84 + 52 + 54 = 324$

Reqd. % = $(409/324) \times 100 = 126.23\%$

36. C

Solution: $A_{M1} = 3.2 \times (20/100) \times (13/20) \times (25/100) = 0.104$ crore

37. A

Solution: $B_{M2} = 3.2 \times (14/100) \times (5/14) \times (30/100) = 0.048$

$C_{M2} = 3.2 \times (22/100) \times (5/11) \times (24/100) = 0.0768$

$$\therefore \text{Sum} = 0.048 + 0.0768 = 0.1248$$

38. B

Solution: (Production – M₁) = $3.2 \times (13/100) \times (6/13) = (3.2 \times 6)/100$

(Production – M₂) = $3.2 \times (21/100) \times (10/21) = (3.2 \times 10)/100$

$$\therefore \text{Ratio} = 6/10 = 3/5$$

39. E

Solution: C_{M1} = $3.2 \times (22/100) \times (6/11) \times (20/100) = 0.0768$ crore

E_{M2} = $3.2 \times (10/100) \times (3/5) \times (21/100) = 0.04032$ crore

$$\therefore \text{Sum} = 0.0768 - 0.04032 = 0.03648$$

40. A

Solution: The percentage profit earned by Company B on model M1

= 28% of 9/14 of 14% of total production cost

The percentage profit earned by Company D on model M2

= 25% of 7/13 of 13% of total production cost

$$\therefore \text{Reqd. \%} = \{ (28\% \text{ of } 9/14 \text{ of } 14\% \text{ of total production cost}) / (25\% \text{ of } 7/13 \text{ of } 13\% \text{ of total production cost}) \} \times 100$$

$$= \{ (28 \times 9) / (25/7) \} \times 100 = 144\%$$

41. B

Solution: Total urban population of Maharashtra and Odisha together

$$= (2250000 \times 17)/45 + (1136000 \times 5)/16$$

$$= 850000 + 355000 = 1205000$$

$$\text{Total population of Maharashtra and Odisha} = 2250000 + 1136000 = 3386000$$

$$\therefore \text{Reqd. \%} = (1205000/3386000) \times 100 = 35.587 \approx 35.59\%$$

42. B

Solution: Rural \equiv 28; Urban \equiv 17

$$\therefore \text{Rural} - \text{urban} \equiv 28 - 17 = 11$$

$$\therefore \text{Reqd. percent} = (11/28) \times 100 \approx 39\%$$

43. E

Solution: Total illiterate population of West Bengal, Odisha and Madhya Pradesh together

$$= \{(2480000 \times 11)/31 + (1136000 \times 5)/16 + (1642000 \times 1)/4\} = 880000 + 355000 + 410500 = 1645500$$

$$\therefore \text{Reqd. \%} = \{1645500 / (2480000 + 1136000 + 1642000)\} \times 100$$

$$= (1645500 / 5258000) \times 100 = 31.29\% \approx 31\%$$

44. B

$$\text{Solution: Reqd. difference} = (1642000 \times 3)/4 \times (45/100) - (248000 \times 3)/4 \times (44/100) \\ = 554175 - 81840 = 472335$$

45. C

Solution: Total number of graduates from Odisha, West Bengal and Maharashtra together

$$= \{(1136000 \times 11)/16 \times (38/100)\} + \{(2480000 \times 20)/31 \times (42/100)\} + \{(2250000 \times 5)/8 \times (48/100)\}$$

$$= (11360 \times 11 \times 38)/16 + (24800 \times 20 \times 42)/31 + (22500 \times 5 \times 48)/8$$

$$= 296780 + 672000 + 675000 = 1643780$$

46. C

Solution: The number of balls faced by Player C = 114

The number of balls faced by Player D = 224

$$\text{The required difference} = 224 - 114 = 110$$

47. B

Solution: The sum of balls faced by all the players together = $(300 + 320 + 114 + 224 + 348) = 1306$

$$\text{The reqd. average} = 1306/5 = 261.2$$

48. C

Solution: From the above table, it is clear that the player E had faced highest number of balls.

49. D

Solution: The number of runs scored by the player A and E together = $145 + 435 = 580$

The number of balls faced by A and E together = $300 + 348 = 648$

The reqd. answer = $(580 \times 100)/648 = 89.5 = \text{approximately } 90$

50. A

Solution: The sum of the runs scored by all the players together = $435 + 336 + 228 + 240 + 145 = 1384$

The average = $1384/5 = 276.8$

The sum of balls faced by all the players together = $(300 + 320 + 114 + 224 + 348) = 1306$

The reqd. average = $1306/5 = 261.2$

The required answer = $276.8 - 261.2 = 15.6$



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