



Data Interpretation Tables Questions for MAH_CET

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Questions

Instructions

For the following questions answer them individually

Question 1

In the table, the production and the sale (in 1000 tonnes) of a certain product of a company over 5 years is given.

Years	Production (in 1000 tonnes)	Sale (in 1000 tonnes)
2015	1250	1000
2016	1400	1290
2017	1450	1100
2018	1500	1450
2019	1600	1390

In which year(s) the production increases by more than 10% of that in the previous year?

- A 2018, 2019
- B 2017, 2018
- C 2019
- D 2016

Answer: D

Explanation:

Percentage increase in production of 2016 compared to 2015 = $\frac{150}{1250} \times 100 = 12\%$

Percentage increase in production of 2017 compared to 2016 = $\frac{50}{1400} \times 100 = 3.57\%$

Percentage increase in production of 2018 compared to 2017 = $\frac{50}{1450} \times 100 = 3.44\%$

Percentage increase in production of 2019 compared to 2018 = $\frac{100}{1500} \times 100 = 6.67\%$

∴ Only in 2016, the production increases by more than 10% of that in the previous year.

Hence, the correct answer is Option D

Question 2

Table shows District-wise data of number of primary school teachers posted in schools of a city.

District	Male teachers	Female teachers
East	1650	2375
North	1075	2651
West	1280	1520
South	1170	1085
Central	690	859

What is the difference between the total number of male teachers in the districts East, North, West taken together and the total number of female teachers in the districts East and South?

- A 735
- B 771
- C 110
- D 545

Answer: D

Explanation:

The total number of male teachers in the districts East, North, West taken together = $1650 + 1075 + 1280$
= 4005

The total number of female teachers in the districts East and South = $2375 + 1085$
= 3460

Required difference = $4005 - 3460$
= 545

Hence, the correct answer is Option D

Question 3

Table shows the number of trees planted in 4 cities from 2016 to 2020.

Years	Chandigarh	Ahmadabad	Pune	Kolkata
2016	1800	2500	1800	2000
2017	2500	2300	1850	1800
2018	2300	2400	1840	1760
2019	2440	1950	1900	1600
2020	2250	2100	2000	1750

In which city were maximum trees planted in 2016 and 2019 taken together?

- A** Chandigarh
- B** Ahmedabad
- C** Pune
- D** Kolkata

Answer: B

Explanation:

Trees planted in Chandigarh in 2016 and 2019 together = $1800 + 2440 = 4240$

Trees planted in Ahmedabad in 2016 and 2019 together = $2500 + 1950 = 4450$

Trees planted in Pune in 2016 and 2019 together = $1800 + 1900 = 3700$

Trees planted in Kolkata in 2016 and 2019 together = $2000 + 1600 = 3600$

∴ In Ahmedabad, maximum trees planted in 2016 and 2019 taken together

Hence, the correct answer is Option B

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Question 4

Study the following table and answer the question:

Percentage of marks obtained by six students in five subjects A, B, C, D & E.

Subjects →	A	B	C	D	E
Students ↓	(Out of 75)	(Out of 80)	(Out of 100)	(Out of 50)	(Out of 150)
Manju	68	85	86	72	92
Amit	64	65	80	96	80
Rekha	88	75	65	74	90
Anuj	80	55	68	66	84
Abhi	72	65	72	54	74
Vikram	60	70	73	84	86

The average marks of Manju, Rekha and Abhi in subject B are?

- A 54
- B 60
- C 56
- D 62

Answer: B

Explanation:

Marks obtained by Manju in subject B = $\frac{85}{100} \times 80 = 68$

Marks obtained by Rekha in subject B = $\frac{75}{100} \times 80 = 60$

Marks obtained by Abhi in subject B = $\frac{65}{100} \times 80 = 52$

The average marks of Manju, Rekha and Abhi in subject B = $\frac{68+60+52}{3}$

= $\frac{180}{3}$

= 60

Hence, the correct answer is Option B

Question 5

The data given in the table shows the number of boys and girls enrolled in three different streams in a school over 5 years.

Years	Arts		Science		Commerce	
	Boys	Girls	Boys	Girls	Boys	Girls
2012	48	36	40	35	35	45
2014	42	43	42	32	32	42
2016	45	42	38	30	36	38
2018	39	46	41	23	28	34
2020	36	43	39	30	39	41

What is the ratio of the total number of boys in the year 2014 to the total number of girls in the year 2020?

- A 58 : 57
- B 55 : 57
- C 58 : 53
- D 1 : 1

Answer: A

Explanation:

Ratio of the total number of boys in the year 2014 to the total number of girls in the year 2020 = $(42+42+32) : (43+30+41)$

= 116 : 114

= 58 : 57

Hence, the correct answer is Option A

Question 6

Table shows income (in ₹) received by 4 employees of a company during the month of December 2020 and all their income sources.

Source	Amit	Suresh	Nitin	Varun
Salary	35000	38500	29000	42000
Arrears	6000	6300	5000	7500
Bonus	1000	1100	1000	1240
Overtime	1800	1950	1400	1500

What is the ratio of salary of Varun to his income other than salary?

A 128 : 653

B 653 : 128

C 128 : 525

D 525 : 128

Answer: D

Explanation:

The ratio of salary of Varun to his income other than salary = $42000 : (7500+1240+1500)$

= 42000 : 10240

= 525 : 128

Hence, the correct answer is Option D

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Question 7

Table shows the number of trees planted in 4 cities from 2016 to 2020.

Years	Chandigarh	Ahmadabad	Pune	Kolkata
2016	1800	2500	1800	2000
2017	2500	2300	1850	1800
2018	2300	2400	1840	1760
2019	2440	1950	1900	1600
2020	2250	2100	2000	1750

What is the total number of trees planted in Chandigarh in 2017 and in Kolkata in 2020?

A 4500

B 4750

C 4250

D 3550

Answer: C

Explanation:

From the table,

Number of trees planted in Chandigarh in 2017 = 2500

Number of trees planted in Kolkata in 2020 = 1750

The total number of trees planted in Chandigarh in 2017 and in Kolkata in 2020 = 2500 + 1750

= 4250

Hence, the correct answer is Option C

Question 8

Study the following table and answer the question:

Number of students Appeared (A) and Passed (P) in an annual examination from four schools Q, R, S & T in five years (2014 to 2018)

School →	Q		R		S		T	
Year ↓	A	P	A	P	A	P	A	P
2014	320	240	400	340	420	273	250	225
2015	400	320	380	285	350	280	300	228
2016	440	286	360	288	330	264	320	256
2017	350	252	420	294	380	247	350	315
2018	375	320	450	405	400	344	375	300

The difference between the average number of students passed from school R in 2015 to 2017 and the number of students passed from school Q in 2015 is x. The value of x lies between:

A 20 and 25

B 35 and 40

C 30 and 35

D 25 and 30

Answer: C

Explanation:

The difference between the average number of students passed from school R in 2015 to 2017 and the number of students passed from school Q in 2015 is x.

$$x = 320 - \left(\frac{285 + 294}{2} \right)$$

$$x = 320 - 289.5$$

$$x = 30.5$$

x lies between 30 and 35.

Hence, the correct answer is Option C

Question 9

Study the following table and answer the question:

Number of students Appeared (A) and Passed (P) in an annual examination from four schools Q, R, S & T in five years (2014 to 2018)

School →	Q		R		S		T	
Year ↓	A	P	A	P	A	P	A	P
2014	320	240	400	340	420	273	250	225
2015	400	320	380	285	350	280	300	228
2016	440	286	360	288	330	264	320	256
2017	350	252	420	294	380	247	350	315
2018	375	320	450	405	400	344	375	300

The total number of students passed from school S in 2014 and 2017 is what percent of 90% of the total number of students appeared from school T in 2015, 2016 and 2017? (correct to one decimal place)

- A 53.9
- B 54.8
- C 59.6
- D 57.4

Answer: C

Explanation:

The total number of students passed from school S in 2014 and 2017 = $273 + 247 = 520$

90% of the total number of students appeared from school T in 2015, 2016 and 2017 = $\frac{90}{100} (300 + 320 + 350)$
 = 873

Required percentage = $\frac{520}{873} \times 100$
 = 59.6(approximately)

Hence, the correct answer is Option C

Question 10

Study the following table and answer the question:

Number of students enrolled for Vocational Courses (VC) in institutes A, B, C, D, E & F.

Year →	2014	2015	2016	2017	2018
Institute ↓					
A	110	150	165	180	205
B	120	180	176	200	220
C	140	220	180	175	225
D	125	210	175	180	230
E	150	200	160	200	240
F	165	230	200	220	210

The total number of students enrolled for VC in institutes D and F in 2014 is what percent of the total number of students enrolled in institutes A, B and C in 2018? (correct to one decimal point)

- A 43.2
- B 42.8
- C 43.8
- D 44.6

Answer: D

Explanation:

The total number of students enrolled for VC in institutes D and F in 2014 = $125 + 165 = 290$

The total number of students enrolled for VC in institutes A, B and C in 2018 = $205 + 220 + 225 = 650$

Required percentage = $\frac{290}{650} \times 100$

= 44.61 (approximately)

Hence, the correct answer is Option D

Question 11

Study the following table and answer the question:

Number of students enrolled for Vocational Courses (VC) in institutes A, B, C, D, E & F.

Year → Institute ↓	2014	2015	2016	2017	2018
A	110	150	165	180	205
B	120	180	176	200	220
C	140	220	180	175	225
D	125	210	175	180	230
E	150	200	160	200	240
F	165	230	200	220	210

The difference between the average number of students enrolled for VC in institute F in 2015, 2017 and 2018 and the average number of students enrolled in all the six institutes in 2014, is:

A 89

B 88

C 82

D 85

Answer: D

Explanation:

The average number of students enrolled for VC in institute F in 2015, 2017 and 2018 = $\frac{230+220+210}{3} = 220$

The average number of students enrolled for VC in all the six institutes in 2014 = $\frac{110+120+140+125+150+165}{6} = \frac{810}{6} = 135$

Required difference = $220 - 135 = 85$

Hence, the correct answer is Option D

Question 12

Study the following table and answer the question:

Percentage of marks obtained by six students A, B, C, D, E and F in five subjects.

Subjects → Students ↓	English (Out of 50)	Math (Out of 150)	Science (Out of 80)	Hindi (Out of 75)	Social Studies (Out of 100)
A	70	90	65	64	88
B	84	92	75	68	49
C	66	80	85	80	84
D	62	74	75	88	60
E	54	64	55	72	85
F	72	84	65	60	65

The total marks obtained by student F in English, Science and Hindi is approximately what percent of the total marks obtained by student A in English, Mathematics, Science and Hindi? (Correct to one decimal place)

- A** 50.2
B 49.3
C 48.4
D 45.5

Answer: B

Explanation:

The total marks obtained by student F in English, Science and Hindi = $\frac{72}{100} \times 50 + \frac{60}{100} \times 80 + \frac{60}{100} \times 75 = 36 + 52 + 45 = 133$

The total marks obtained by student A in English, Mathematics, Science and Hindi = $\frac{70}{100} \times 50 + \frac{90}{100} \times 150 + \frac{60}{100} \times 80 + \frac{64}{100} \times 75 = 35 + 135 + 52 + 48 = 270$

Required percentage = $\frac{133}{270} \times 100$

= 49.259%

= 49.3% (approximately)

Hence, the correct answer is Option B

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Question 13

Table shows District-wise data of number of primary school teachers posted in schools of a city.
 Study the table and answer the question.

District	Male teachers	Female teachers
East	1650	2375
North	1075	2651
West	1280	1520
South	1170	1085
Central	690	859

In which district(s) is the number of female teachers Exceed the number of male teachers by more than 500?

- A** West and South
B East and North
C North and South
D East and West

Answer: B

Explanation:

Difference between number of female teachers and male teachers respectively in East district = $2375 - 1650 = 725$

Difference between number of female teachers and male teachers respectively in North district = $2651 - 1075 = 1576$

Difference between number of female teachers and male teachers respectively in West district = $1520 - 1280 = 240$

Difference between number of female teachers and male teachers respectively in Central district = $859 - 690 = 169$

In East and North districts, number of female teachers Exceed the number of male teachers by more than 500.

Hence, the correct answer is Option B

Question 14

Study the following table and answer the question:

Percentage of marks obtained by six students A, B, C, D, E and in five subjects.

Subjects →	English (Out of 50)	Math (Out of 150)	Science (Out of 80)	Hindi (Out of 75)	Social Studies (Out of 100)
Students ↓					
A	70	90	65	64	88
B	84	92	75	68	49
C	66	80	85	80	84
D	62	74	75	88	60
E	54	64	55	72	85
F	72	84	65	60	65

What are the average marks of students B, C, D and F in Math?

A 125.5

B 82.5

C 123.75

D 120.75

Answer: C

Explanation:

The average marks of students B, C, D and F in Math =

$$= \frac{150}{100} [92 + 80 + 74 + 84]$$

$$= \frac{150}{100} [330]$$

$$= \frac{495}{4}$$

$$= 123.75$$

Hence, the correct answer is Option C

Question 15

In the table, production and sale (in 1000 tonnes) of a certain product of a company over 5 years is given. Study the table and answer the question.

Years	Production (in 1000 tonnes)	Sale (in 1000 tonnes)
2015	1250	1000
2016	1400	1290
2017	1450	1100
2018	1500	1450
2019	1600	1390

In which year(s) sale is 80% or more but less than 90% of the production?

A 2016, 2018

B 2019

C 2015, 2016

D 2015, 2019

Answer: D

Explanation:

In 2015, percentage of sales of the production = $\frac{1000}{1250} \times 100 = 80\%$

In 2016, percentage of sales of the production = $\frac{1290}{1400} \times 100 = 92.14\%$

In 2017, percentage of sales of the production = $\frac{1100}{1450} \times 100 = 75.86\%$

In 2018, percentage of sales of the production = $\frac{1450}{1500} \times 100 = 96.67\%$

In 2019, percentage of sales of the production = $\frac{1390}{1600} \times 100 = 86.875\%$

∴ In 2015 and 2019, sale is 80% or more but less than 90% of the production.

Hence, the correct answer is Option D

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Question 16

The table shows the daily income (in ₹) of 50 persons.
Study the table and answer the question:

Income (Rs)	No. of Persons
Less than 200	12
Less than 250	26
Less than 300	34
Less than 350	40
Less than 400	50

What is the percentage of persons earning ₹250 or more?

A 52

B 68

C 32

D 48

Answer: D

Explanation:

Number of persons earning less than ₹200 = 12

Number of persons earning between ₹200 and ₹250 = 26 - 12 = 14

Number of persons earning between ₹250 and ₹300 = 34 - 26 = 8

Number of persons earning between ₹300 and ₹350 = 40 - 34 = 6

Number of persons earning between ₹350 and ₹400 = 50 - 40 = 10

Percentage of persons earning ₹250 or more = $\frac{8+6+10}{50} \times 100 = 48\%$

Hence, the correct answer is Option D

Question 17

Study the following table and answer the question:

Percentage of marks obtained by six students in five subjects A, B, C, D & E.

Subjects → Students ↓	A (Out of 75)	B (Out of 80)	C (Out of 100)	D (Out of 50)	E (Out of 150)
Manju	68	85	86	72	92
Amit	64	65	80	96	80
Rekha	88	75	65	74	90
Anuj	80	55	68	66	84
Abhi	72	65	72	54	74
Vikram	60	70	73	84	86

The total marks obtained by Amit in subjects A, B and C is what percent less than the total marks obtained by Vikram in subjects B, C, D and E?

A 42

B 35

C 40

D 38

Answer: C

Explanation:

Total marks obtained by Amit in subjects A, B and C = $\frac{64}{100} \times 75 + \frac{65}{100} \times 80 + \frac{80}{100} \times 100 = 48 + 52 + 80 = 180$

Total marks obtained by Vikram in subjects B, C, D and E = $\frac{70}{100} \times 80 + \frac{73}{100} \times 100 + \frac{84}{100} \times 50 + \frac{86}{100} \times 150 = 56 + 73 + 42 + 129 = 300$

Required percentage = $\frac{300-180}{300} \times 100 = 40\%$

Hence, the correct answer is Option C

Question 18

The data given in the table shows the number of students studying in 4 different disciplines in 5 institutes. Study the table and answer the question:

Institutes	Arts	Science	Commerce	Computer Science
A	36	48	59	57
B	45	54	55	48
C	55	36	56	51
D	45	48	55	53
E	48	44	52	55

What is the ratio of number of students studying Science in institutes C and D taken together to the number of students studying Computer Science in institutes A and E taken together?

A 41:56

B 43:56

C 42:55

D 3:4

Answer: D

Explanation:

Number of students studying Science in institutes C and D taken together = $36 + 48 = 84$

Number of students studying Computer Science in institutes A and E taken together = $57 + 55 = 112$

Required ratio = $84 : 112$

= $3 : 4$

Hence, the correct answer is Option D

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Question 19

Study the following table and answer the question:

Percentage of marks obtained by six students in five subjects A, B, C, D & E.

Subjects → Students ↓	A (Out of 75)	B (Out of 80)	C (Out of 100)	D (Out of 50)	E (Out of 150)
Manju	68	85	86	72	92
Amit	64	65	80	96	80
Rekha	88	75	65	74	90
Anuj	80	55	68	66	84
Abhi	72	65	72	54	74
Vikram	60	70	73	84	86

The total marks obtained by Anuj in all the five subjects are ?

A 331

B 324

C 303

D 328

Answer: A

Explanation:

The total marks obtained by Anuj in all the five subjects = $\frac{80}{100} \times 75 + \frac{55}{100} \times 80 + \frac{68}{100} \times 100 + \frac{66}{100} \times 50 + \frac{84}{100} \times 150$

= $60 + 44 + 68 + 33 + 126$

= 331

Hence, the correct answer is Option A

Question 20

The data given in the table shows the number of students studying in four different disciplines in 5 institutes. Study the table and answer the question.

Institutes	Arts	Science	Commerce	Computer Science
A	36	48	59	57
B	45	54	55	48
C	55	36	56	51
D	45	48	55	53
E	48	44	52	55

Number of students studying Computer Science in the institutes A and C taken together is what percent of the number of students studying Arts in the institutes B and D taken together?

- A** 108
- B** 200
- C** 120
- D** 83.3

Answer: C

Explanation:

Number of students studying Computer Science in the institutes A and C taken together = $57 + 51 = 108$

Number of students studying Arts in the institutes B and D taken together = $45 + 45 = 90$

Required percentage = $\frac{108}{90} \times 100 = 120\%$

Hence, the correct answer is Option C

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