DATA INTERPRETATION

1. The following table gives the population of a town from 2017 to 2021. Some data is missing from it. What is the number of children in 2018?

The table below provides the population details for men, women, and children over the years from 2017 to 2021. Some data is missing. The total population and the increase or decrease over the preceding year are also provided.

Year	Men	Women	Children	Total	Increase (+) or Decrease (-) over Preceding Year
2017	65104	60387	Missing	146947	–
2018	70391	62516	0	Missing	+11630
2019	63143	20314	Missing	153922	−5337
2020	69395	21560	Missing	Missing	–
2021	71274	65935	23789	Missing	–

(A) 21456
(B) 22913
(C) 26430
(D) 25670
(E) 24390

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2. The following table gives the population of a town from 2017 to 2021. Some data is missing from it. How much is the increase or decrease of population in 2021 over 2020?

The table below provides the population details for men, women, and children over the years from 2017 to 2021. Some data is missing. The total population and the increase or decrease over the preceding year are also provided.

Year	Men	Women	Children	Total	Increase (+) or Decrease (-) over Preceding Year
2017	65104	60387	Missing	146947	–
2018	70391	62516	0	Missing	+11630
2019	63143	20314	Missing	153922	−5337
2020	69395	21560	Missing	Missing	–
2021	71274	65935	23789	Missing	–

(A) 10566 decrease
(B) 12413 increase
(C) 13957 decrease
(D) 11086 increase
(E) 14905 increase

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3. The following table gives the population of a town from 2017 to 2021. Some data is missing from it. The percentage change in the population in 2020 with respect to 2018 is:

The table below provides the population details for men, women, and children over the years from 2017 to 2021. Some data is missing. The total population and the increase or decrease over the preceding year are also provided.

Year	Men	Women	Children	Total	Increase (+) or Decrease (-) over Preceding Year
2017	65104	60387	Missing	146947	–
2018	70391	62516	20314	158620	+11630
2019	63143	20314	Missing	153922	−5337
2020	69395	21560	Missing	Missing	–
2021	71274	65935	23789	Missing	–

(A) 7.6%
(B) 7.1%
(C) 6.7%
(D) 6.3%
(E) 6%

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4. The following chart shows the percentage of students studying in different IITs in the year 2022. The ratio of male students to female students in each IIT is given. What is the total number of male students in all IITs put together?
The table below shows the percentage of students in different IITs, along with the ratio of male to female students in each IIT.

IIT	Male: Female Ratio	Percentage of Total Students
IIT Bombay	2 : 3	22%
IIT Delhi	12 : 17	18%
IIT Kanpur	7 : 5	21%
IIT Kharagpur	5 : 4	16%
IIT Madras	11 : 5	12%
IIT Roorkee	21 : 3	11%

(A) 1865
(B) 2421
(C) 2025
(D) 1954
(E) 2179

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5. The following chart shows the percentage of students studying in different IITs in the year 2022. The ratio of male students to female students in each IIT is given. The number of female students in IIT Kanpur is what percent of the total number of students in it?

The table below shows the percentage of students in different IITs, along with the ratio of male to female students in each IIT.

IIT	Male: Female Ratio	Percentage of Total Students
IIT Bombay	2 : 3	22%
IIT Delhi	17 : 10	18%
IIT Kanpur	7 : 5	21%
IIT Kharagpur	5 : 4	16%
IIT Madras	1 : 2	12%
IIT Roorkee	5 : 1	11%

(A) 55
(B) 35
(C) 45
(D) 42
(E) 32

---

6. The following chart shows the percentage of students studying in different IITs in the year 2022. The ratio of male students to female students in each IIT is given. What is the total number of male students in IIT Delhi and IIT Roorkee?
The table below shows the percentage of students in different IITs, along with the ratio of male to female students in each IIT.

IIT	Male: Female Ratio	Percentage of Total Students
IIT Bombay	2 : 3	22%
IIT Delhi	17 : 10	18%
IIT Kanpur	7 : 5	21%
IIT Kharagpur	5 : 4	16%
IIT Madras	1 : 2	12%
IIT Roorkee	5 : 1	11%

(A) 1125
(B) 1097
(C) 1015
(D) 894
(E) 992

---

7. The following chart shows the percentage of students studying in different IITs in the year 2022. The ratio of male students to female students in each IIT is given. Which IIT has the maximum number of female candidates?
The table below shows the percentage of students in different IITs, along with the ratio of male to female students in each IIT.

IIT	Male: Female Ratio	Percentage of Total Students
IIT Bombay	2 : 3	22%
IIT Delhi	17 : 10	18%
IIT Kanpur	7 : 5	21%
IIT Kharagpur	5 : 4	16%
IIT Madras	1 : 2	12%
IIT Roorkee	5 : 1	11%

(A) IIT Bombay
(B) IIT Kharagpur
(C) IIT Delhi
(D) IIT Kanpur
(E) IIT Madras

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8. The following chart shows the percentage of students studying in different IITs in the year 2022. The ratio of male students to female students in each IIT is given. The number of male students in IIT Bombay is what percent more than the number of male students in IIT Kharagpur?

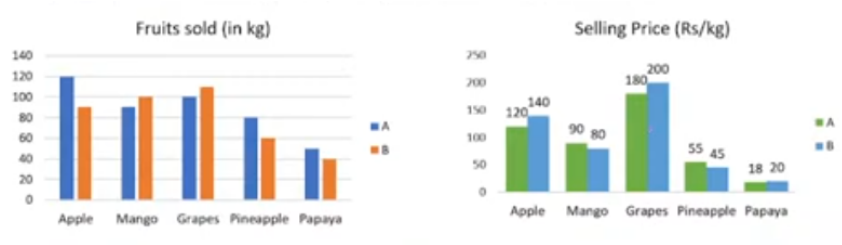
The table below shows the percentage of students in different IITs, along with the ratio of male to female students in each IIT.

IIT	Male: Female Ratio	Percentage of Total Students
IIT Bombay	2 : 3	22%
IIT Delhi	17 : 10	18%
IIT Kanpur	7 : 5	21%
IIT Kharagpur	5 : 4	16%
IIT Madras	1 : 2	12%
IIT Roorkee	5 : 1	11%

(A) 44%
(B) 50%
(C) 55%
(D) 60%
(E) 40%

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9. The following graphs show the total quantity (in kg) of five different fruits sold by two fruit sellers A and B. Graph 1 shows the total quantity (in kg) of fruits sold, and Graph 2 shows the selling price per kg of fruits sold by the sellers. The sale of fruit seller B by selling apple and grapes is what percent more than the sale of fruit seller A by selling the same fruits?



(A) 6.8%
(B) 8.2%
(C) 9.5%
(D) 10.1%
(E) 10.8%

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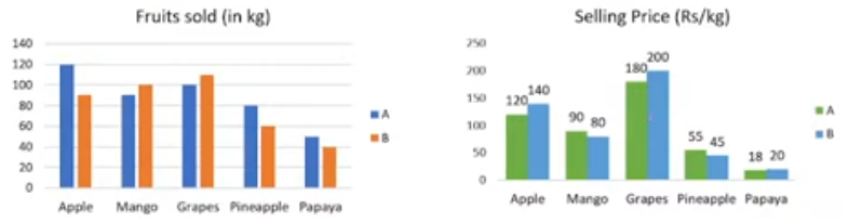
10. The following graphs show the total quantity (in kg) of five different fruits sold by two fruit sellers A and B. Graph 1 shows the total quantity (in kg) of fruits sold, and Graph 2 shows the selling price per kg of fruits sold by the sellers. What is the difference between the sale obtained from Pineapple and Papaya together by fruit seller A and B?



(A) Rs. 1500
(B) Rs. 1600
(C) Rs. 1700
(D) Rs. 1800
(E) Rs. 2000

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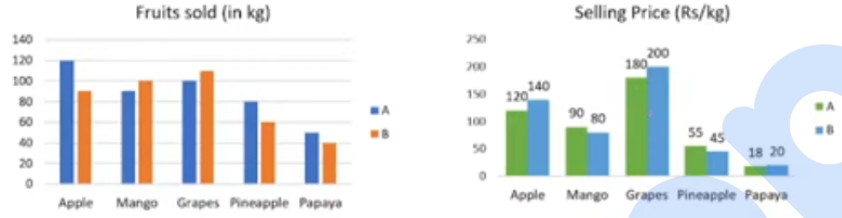
11. The following graphs show the total quantity (in kg) of five different fruits sold by two fruit sellers A and B. Graph 1 shows the total quantity (in kg) of fruits sold, and Graph 2 shows the selling price per kg of fruits sold by the sellers. If profit percent earned by fruit seller A from the sale of mango is 20% and that by fruit seller B on the same fruit is 25%, what is the difference between the price at which they buy mangoes?



(A) Rs. 10
(B) Rs. 11
(C) Rs. 12
(D) Rs. 15
(E) Rs. 16

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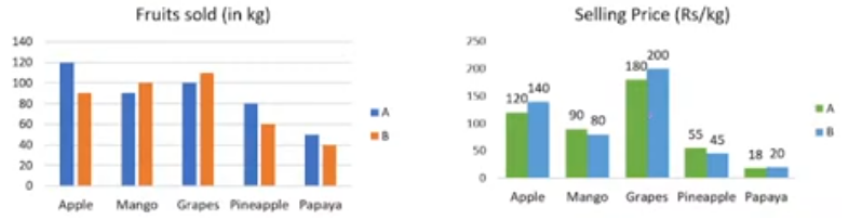
12. The following graphs show the total quantity (in kg) of five different fruits sold by two fruit sellers A and B. Graph 1 shows the total quantity (in kg) of fruits sold, and Graph 2 shows the selling price per kg of fruits sold by the sellers. If 20% of the apples bought by fruit seller A were rotten and 10% of the apples bought by fruit seller B were rotten, and they sold all the remaining apples, what is the ratio of the quantities of apples bought by fruit sellers A and B?



(A) 6:5
(B) 5:4
(C) 4:3
(D) 3:2
(E) 2:3

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13. The following graphs show the total quantity (in kg) of five different fruits sold by two fruit sellers A and B. Graph 1 shows the total quantity (in kg) of fruits sold, and Graph 2 shows the selling price per kg of fruits sold by the sellers. If fruit seller A was able to sell 80% of his stock of pineapples and B was able to sell 75% of his stock of pineapples, what percent of the pineapples bought by the two fruit sellers remained unsold?



(A) 22.22%
(B) 22.5%
(C) 23.67%
(D) 24%

(E) 25%

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14. 600 players participated in four different events: volleyball, table tennis, badminton, and lawn tennis. The ratio between male and female players was 11:4 in volleyball, and 10% of the female players participated in table tennis. The remaining female players participated in badminton and lawn tennis in a ratio of 1:3. The ratio of male players who participated in volleyball and other events together is 3:5. 4% of those male players who did not participate in volleyball participated in lawn tennis. The remaining male players participated in table tennis and badminton in a ratio of 5:3. What is the ratio between the female players who participated in lawn tennis and table tennis?

(A) 3:1
(B) 9:2
(C) 4:1
(D) 7:2
(E) 6:5

---

15. 600 players participated in four different events: volleyball, table tennis, badminton, and lawn tennis. The ratio between male and female players was 11:4 in volleyball, and 10% of the female players participated in table tennis. The remaining female players participated in badminton and lawn tennis in a ratio of 1:3. The ratio of male players who participated in volleyball and other events together is 3:5. 4% of those male players who did not participate in volleyball participated in lawn tennis. The remaining male players participated in table tennis and badminton in a ratio of 5:3. What is the difference between male players participating in badminton and female players participating in lawn tennis?

Sport	Male	Female	Total
Volleyball	165	48	213
Table Tennis	165	16	181
Badminton	99	24	123
Lawn Tennis	11	72	83
Total	440	160	600

(A) 27
(B) 31
(C) 83
(D) 76
(E) 48

---

16. 600 players participated in four different events: volleyball, table tennis, badminton, and lawn tennis. The ratio between male and female players was 11:4 in volleyball, and 10% of the female players participated in table tennis. The remaining female players participated in badminton and lawn tennis in a ratio of 1:3. The ratio of male players who participated in volleyball and other events together is 3:5. 4% of those male players who did not participate in volleyball participated in lawn tennis. The remaining male players participated in table tennis and badminton in a ratio of 5:3. What is the total number of female players participating in volleyball and badminton?

Sport	Male	Female	Total
Volleyball	165	48	213
Table Tennis	165	16	181
Badminton	99	24	123
Lawn Tennis	11	72	83
Total	440	160	600

(A) 68
(B) 67
(C) 58
(D) 72
(E) 88

---

17. 600 players participated in four different events: volleyball, table tennis, badminton, and lawn tennis. The ratio between male and female players was 11:4 in volleyball, and 10% of the female players participated in table tennis. The remaining female players participated in badminton and lawn tennis in a ratio of 1:3. The ratio of male players who participated in volleyball and other events together is 3:5. 4% of those male players who did not participate in volleyball participated in lawn tennis. The remaining male players participated in table tennis and badminton in a ratio of 5:3. What is the total number of players participating in table tennis and volleyball together?

Sport	Male	Female	Total
Volleyball	165	48	213
Table Tennis	165	16	181
Badminton	99	24	123
Lawn Tennis	11	72	83
Total	440	160	600

(A) 360
(B) 358
(C) 374
(D) 394
(E) 412

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1. If $ab = 16$ and $\log_2 a - \log_2 b = 2$, find the value of $\log_2 a^2b^3$.

(A) 8
(B) 9
(C) 10
(D) 11
(E) 12

---

2. What is the probability that in three throws of a dice, one gets exactly two 6s?

(A) $\frac{1}{18}$
(B) $\frac{5}{72}$
(C) $\frac{1}{12}$
(D) $\frac{7}{72}$
(E) $\frac{1}{24}$

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3. Aman, Bharat, Chitra, and Deepa are four siblings. Their mother gave them some candies. Aman took $\frac{1}{3}$ of the candies and returned 4. Then Bharat took $\frac{1}{4}$ of the remaining candies and returned 3. Chitra took $\frac{1}{2}$ of the remaining candies and returned 2. Finally, Deepa took the remaining 17 candies. How many candies did Bharat and Chitra take altogether?

(A) 25
(B) 23
(C) 19
(D) 17
(E) 22

---

4. Find the sum of 10 terms of the series: 2, -8, 32, -128, 512, . . .

(A) -413490
(B) -419340
(C) -414930
(D) -419430
(E) -413940

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5. 3 men, 5 women, and 7 children can complete a work in 40 days. 6 men, 10 women, and 18 children can complete the work in 18 days. 9 men, 15 women, and 5 children can complete the work in?

(A) 17 17/18 days
(B) 18 18/19 days
(C) 19 18/19 days
(D) 18 17/18 days
(E) 18 days

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6. Anuj, Bheem, and Charles started a business by putting amounts in the ratio of 2:4:5. After six months, Anuj withdrew $\frac{1}{4}$ of his capital. Bheem withdrew $\frac{1}{4}$ of his initial capital after every quarter. Charles added $\frac{2}{5}$ of his initial capital after every quarter. If the annual profit was Rs. 98000, what was the share of Bheem?

(A) Rs. 14000
(B) Rs. 18000
(C) Rs. 20000
(D) Rs. 21000
(E) Rs. 24000

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7. Find the sum of all the possible values of p such that $p^4 - p^3$ has the unit's digit as 2, where $20 \leq p \leq 30$.

(A) 46
(B) 49
(C) 53
(D) 56
(E) 50

---

8. There are 20 students in a class. If one of the students of 18 years is replaced by another student, the average age of the class is reduced by 2 months. What is the age of the new student?

(A) 14 years
(B) 14 years 4 months
(C) 14 years 6 months
(D) 14 years 8 months
(E) 15 years

---

9. A person invested a certain money in a scheme offering simple interest of 16% per annum and received Rs 736 as interest. Had he invested the amount for 8 more years, he would have got an interest of Rs 3680. What is the amount

obtained if the same sum is invested at 9% per annum for 2 years, interest compounded annually?

(A) Rs. 2714
(B) Rs. 2720.75
(C) Rs. 2732.63
(D) Rs. 2845.26
(E) Rs. 2987.43

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10. Pushkin, Qutub, and Ravinder together can complete a piece of work in 4 days. Ravinder and Samrat can complete the same work in 6 days. If Qutub and Ravinder take 20 and 10 days respectively to finish the work on their own, in how many days can Pushkin and Samrat complete the same work?

(A) 4
(B) 5
(C) 6
(D) 8
(E) 9

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1. In the given question, the sentence has four underlined words or phrases. Identify the one underlined word or phrase that must be changed in order to make the sentence correct. Mark E for no error.

(A) I don't
(B) despite of
(C) To please him
(D) angry with me
(E) No Error

---

2. In the given question, the sentence has four underlined words or phrases. Identify the one underlined word or phrase that must be changed in order to make the sentence correct. Mark E for no error.

(A) who turned
(B) last month
(C) older than
(D) anybody in
(E) No Error

---

3. In the given question, the sentence has four underlined words or phrases. Identify the one underlined word or phrase that must be changed in order to make the sentence correct. Mark E for no error.

(A) and me
(B) will see
(C) am shortest
(D) of the group
(E) No Error

---

4. In the given question, the sentence has four underlined words or phrases. Identify the one underlined word or phrase that must be changed in order to make the sentence correct. Mark E for no error.

(A) In his
(B) how to
(C) moving subjects
(D) molding
(E) No Error

---

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5. In the given question, the sentence has four underlined words or phrases. Identify the one underlined word or phrase that must be changed in order to make the sentence correct. Mark E for no error.

(A) most thorough
(B) all year
(C) is still
(D) pass its test
(E) No Error

---

6. In the given question, the sentence has four underlined words or phrases. Identify the one underlined word or phrase that must be changed in order to make the sentence correct. Mark E for no error.

(A) was
(B) the rare species
(C) which has
(D) to even kill
(E) No Error

---

7. In the given question, the sentence has four underlined words or phrases. Identify the one underlined word or phrase that must be changed in order to make the sentence correct. Mark E for no error.

(A) my friend
(B) who
(C) held a solo
(D) at the
(E) No Error

---

8. In the given question, the sentence has four underlined words or phrases. Identify the one underlined word or phrase that must be changed in order to make the sentence correct. Mark E for no error.

(A) are so similar
(B) in their
(C) that even
(D) one chooses
(E) No Error

---

9. Choose the correct sequence of prepositions that completes the 3 given sentences:
She dived _____ the swimming pool.
The boat sailed _____ the lighthouse.
The treasure is buried _____ the sand.

(A) in
(B) onto
(C) across
(D) past
(E) into
(F) beneath

(A) EDF
(B) DFB
(C) CFD
(D) DAE
(E) EAF

---

10. Choose the correct sequence of prepositions that completes the 3 given sentences:
The bird flew _____ from the nest.
The delivery boy from Swiggy stood _____ the entrance.
After finishing their dinner, they gathered _____ the campfire.

(A) over
(B) away
(C) across
(D) near
(E) around
(F) under

(A) BFE
(B) BDF
(C) DBE
(D) BDE
(E) EDA

---

11. Choose the correct sequence of prepositions that completes the 3 given sentences:
The painting is hanging _____ the wall.
On hearing the fire alarm, she ran _____ of the room.
He threw the letter _____ the fire.

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(A) into
(B) on
(C) across
(D) up
(E) at
(F) out

(A) BCC
(B) BFA
(C) CFB
(D) DFB
(E) DBA

---

12. Having been selected to represent the organization at the International Convention, ...

(A) the members congratulated him
(B) the members applauded him
(C) he gave a short acceptance speech
(D) member congratulates him
(E) a speech had to be given by him

---

13. Though car seat belts replaced harnesses worn by car drivers, the three-point seat belt became popular only in 1958 after the public ..... the idea of safety belts. Subsequently, the sales of the seat belts ..... because since 1966 it has become mandatory to wear car seat belts in America.

(A) caught light of...boomeranged
(B) caught up with...stopped
(C) caught sight of...stabilised
(D) caught on to...skyrocketed
(E) caught up on...nosedived

---

14. Rearrange the jumbled sentences to show the appropriate sequence.

A. Lastly, always remember to give the listener a fair chance to interrupt you whenever he or she pleases.
B. When you are speaking, do not forget to read the listener's face to see what they are thinking.
C. Ask yourself if what you are saying is too much for him or her to grasp as a chunk.
D. If that is the case, try to involve him or her in the conversation actively by eliciting responses to your words.

(A) ABCD
(B) CDBA
(C) BCDA
(D) BDCA
(E) DACA

---

15. Rearrange the jumbled sentences to show the appropriate sequence.

A. 27% of the Canadians polled, and about 35% of the Americans polled, also admitted to not being able to disengage from their gadgets.
B. The overall aim of the poll was to study the holiday habits of people, and identify countries whose people found it most difficult to disengage completely from their gadgets during vacations.
C. Korea was in second place and Japan in third. Indian, Argentinian and Spanish travellers were least bothered about their smart phones.
D. The survey also attempted to find out if travellers ever 'embellished' their travel experiences to friends and family.
E. According to a poll conducted by an online booking site, an overwhelming majority of respondents from Thailand admitted that just the thought of travelling without their small gadgets caused them to "break out in a cold sweat."

(A) EBDCA
(B) BDCEA
(C) EADBC
(D) BECAD
(E) EBCAD
