

Section : Numerical Aptitude

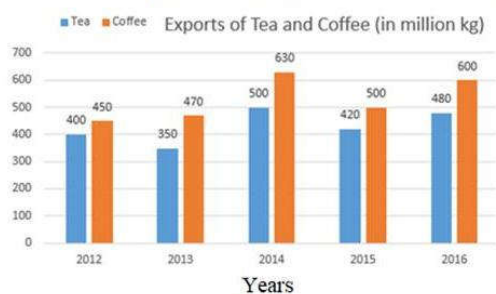
Q.1 A trader sells two articles for ₹9520 each, one at a profit of 12% and the other at a loss of 15%. His overall percentage loss (correct to one decimal place) is:

- Ans**
- ☒ 1. 4.4
 - ☒ 2. 3.1
 - ☒ 3. 3.4
 - ☒ 4. 3.8

Q.2 A person travels a certain distance at a speed of 18 km/h and returns to the starting point at 12 km/h. If he takes 2 hours 55 minutes for the whole journey, the distance one way is:

- Ans**
- ☒ 1. 21 km
 - ☒ 2. 25 km
 - ☒ 3. 18 km
 - ☒ 4. 24 km

Q.3 The given Bar Graph presents the Export of Tea and Coffee (in million kg) for the years 2012 to 2016.





Total export of coffee is approximately what percent more than the total export of tea during the five years?


- Ans**
- ☒ 1. 23
 - ☒ 2. 26
 - ☒ 3. 28
 - ☒ 4. 25

Q.4 What will be the compound interest on a sum of ₹31250, at 12% compound interest (interest compounded yearly) in $2\frac{2}{3}$ years?

- Ans**
- ☒ 1. ₹11048

 2. ₹11096

 3. ₹11068

 4. ₹11086

Q.5 Let x be the smallest number greater than 600 which gives the remainders 2, 3 and 4, when divided by 5, 6 and 7, respectively. The sum of digits of x is:

Ans  1. 14


 2. 15


 3. 13


 4. 16

Q.6 A certain sum amounts to ₹12096 at 8% p.a. in $5\frac{1}{2}$ years at simple interest. What will be the simple interest on the same sum at 10% p.a. in 8 years?

Ans  1. ₹6760


 2. ₹6810


 3. ₹6680


 4. ₹6720

Q.7 An item is sold for ₹702 at a profit of ₹162. If an additional profit of 10% is to be made, then the new selling price will be:

Ans  1. ₹756

 2. ₹729

 3. ₹810

 4. ₹750

Q.8 In an examination, the average score of students in a class who passed is 69 and that of who failed is 61. If the average score of all the students, who appeared in the examination is 66, then the percentage of students who passed is:

Ans  1. 37.5

 2. 60

 3. 62.5

 4. 56

Q.9 A sum of ₹5200 is divided amongst A, B, C and D such that the ratio of shares of A and B is 2 : 3, that of B and C is 4 : 5 and that of C and D is 1 : 2. What is the difference between the shares of B and D?

- Ans ☒ 1. ₹1440
☐ 2. ₹1360
☐ 3. ₹1200
☐ 4. ₹1280

Q.10 A pipe can fill a tank in 18 hours. In how much time (in hours) will another pipe operating at one-third the efficiency of the first pipe fill a tank whose capacity is 50% of that of the first tank?

- Ans ☐ 1. 36
☐ 2. 21
☐ 3. 45
☒ 4. 27

Q.11 The average of 20 numbers is 80. The average of first 10 numbers is 76.5 and that of next 7 numbers is 82. The 18th number is 3 more than the 19th number but 3 less than the 20th number. What is the average of 18th and 19th numbers?

- Ans ☐ 1. 85
☐ 2. 88.5
☐ 3. 86
☒ 4. 85.5


Q.12 A train X travelling at 72 km/h crosses another train Y travelling at 63 km/h (in opposite direction) in 18 seconds. If the length of train Y is two-third the length of X, then length of train X is:

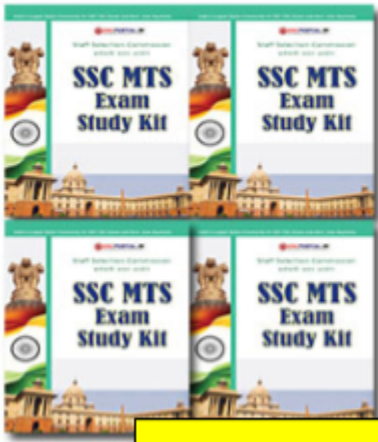
- Ans ☐ 1. 300 m
☐ 2. 420 m
☒ 3. 405 m
☐ 4. 270 m

Q.13 A sphere is inscribed in a cube. What is the ratio of the volume of the cube to the volume of the sphere?

- Ans ☒ 1. $6 : \pi$
☐ 2. $8 : \pi$
☐ 3. $11 : 2\pi$
☐ 4. $9 : 2\pi$


Q.14







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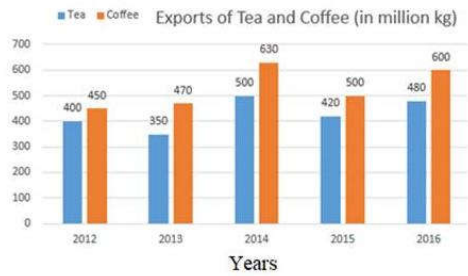
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The given Bar Graph presents the Export of Tea and Coffee (in million kg) for the years 2012 to 2016.



What is the ratio of total export of tea in 2012, 2014 and 2015 to the total export of coffee in 2013 and 2014?

- Ans
- ☒ 1. 10 : 9
 - ☒ 2. 6 : 5
 - ☒ 3. 9 : 10
 - ☒ 4. 5 : 6

Q.15 A can do a piece of work in 15 days and B can do it in $22\frac{1}{2}$ days. They worked together for 6 days and the remaining work was completed by C alone in 6 days. A, B and C together will do the same work in:

- Ans
- ☒ 1. 8 days
 - ☒ 2. 10 days
 - ☒ 3. 6 days
 - ☒ 4. 12 days

Q.16 The radius of a solid right circular cylinder is $66\frac{2}{3}\%$ of its height. If height is h centimetres then its total surface area (in cm^2) is:


- Ans
- ☒ 1. $\frac{20}{9}\pi h^2$
 - ☒ 2. $\frac{40}{9}\pi h^2$
 - ☒ 3. $\frac{44}{9}\pi h^2$
 - ☒ 4. $4\pi h^2$

Q.17 Let x be the median of data: 33, 42, 28, 49, 32, 37, 52, 57, 35, 41.


If 32 is replaced by 36 and 41 by 63, then the median of the data, so obtained, is y . What is the value of $(x + y)$?

- Ans
- ☒ 1. 78
 - ☒ 2. 78.5
 - ☒ 3. 79.5
 - ☒ 4. 79

Q.18 The value of $\left(8 \div \frac{2}{3} \text{ of } \frac{4}{5}\right) \div \left(8 \times \frac{2}{3} \div \frac{4}{5}\right) \text{ of } \left(8 \div \frac{2}{3} \times \frac{4}{5}\right)$ is:

- Ans
-  1. $21\frac{3}{5}$
 -  2. $7\frac{13}{16}$
 -  3. 1
 -  4. $\frac{15}{64}$

Q.19 What is the area (in m^2) of a triangular field whose sides measure 25 m, 39 m and 56 m?

- Ans
-  1. 210
 -  2. 240
 -  3. 420
 -  4. 480

Q.20 A shopkeeper allows 10% discount on the marked price of an article and still makes a profit of 8%. If the marked price is ₹480, then what is the cost price (in ₹) of the article?

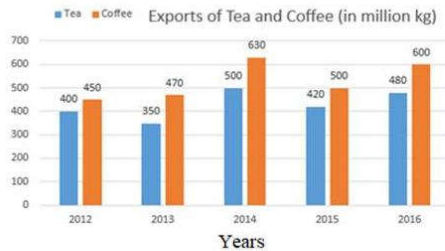
- Ans
-  1. 350
 -  2. 360
 -  3. 420
 -  4. 400

Q.21 In a 60 litre solution of acid and water, the ratio of acid and water is 3 : 7. How much (in litre) acid is to be mixed in the solution so that the ratio of acid and water in the resulting solution is 1 : 2?

- Ans
-  1. $6\frac{1}{2}$
 -  2. 6
 -  3. 3
 -  4. 5

Q.22

The given Bar Graph presents the Export of Tea and Coffee (in million kg) for the years 2012 to 2016.



The number of years, in each of which the export of coffee is more than 20% as compared to the export of tea in that year is:

- Ans
- ☒ 1. 2
 - ☒ 2. 3
 - ☒ 3. 4
 - ☒ 4. 1

Q.23 The value of $165 - [135 - \{84 \div 4 \text{ of } 3 - (16 - 18 \div 3)\}]$ is:

- Ans
- ☒ 1. 81
 - ☒ 2. $36\frac{1}{3}$
 - ☒ 3. 27
 - ☒ 4. 83

Q.24 If $a : b = 2 : 3$, $a : d = 3 : 4$, and $e : d = 3 : 5$, then $e : b = ?$

- Ans
- ☒ 1. 10 : 9
 - ☒ 2. 8 : 15
 - ☒ 3. 9 : 10
 - ☒ 4. 15 : 8

Q.25 In spite of an increase in price of a commodity by 20%, the overall expenditure on it increases by 12 %. What is the percentage decrease in the quantity of commodity consumed?

- Ans
- ☒ 1. $7\frac{1}{3}$
 - ☒ 2. $7\frac{1}{2}$
 - ☒ 3. 8
 - ☒ 4. $6\frac{2}{3}$



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