Section : **Numerical Aptitude**
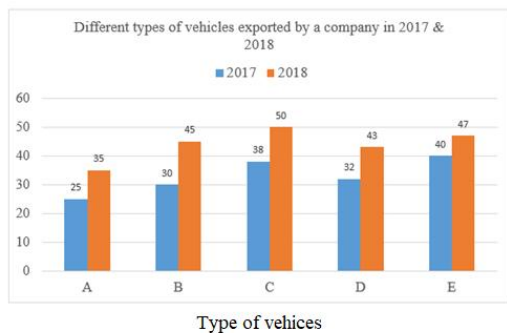
Q.1 x is the greatest number by which, when 2460, 2633 and 2806 are divided, the remainder in each case is the same. What is the sum of digits of x?

Ans ✔ 1. 11

✗ 2. 10

✗ 3. 13

✗ 4. 9

Q.2 The given Bar Graph presents the number of different types of vehicles exported by a company in 2017 and 2018.

Different types of vehicles exported by a company in 2017 & 2018

■ 2017 ■ 2018

Type of vehices

The average export of vehicles in 2018 is what percent more than the export of vehicle A in 2017?

Ans ✗ 1. $46\frac{2}{3}$

✗ 2. 68

✗ 3. $37\frac{1}{2}$

✔ 4. 76

Q.3 If the compound interest in the third year at 8 % p.a. on a certain sum is ₹3600, then what is the difference between the compound interest in the 4th and 5th year? (nearest to an integer in ₹)

Ans ✘ 1. ₹304

✘ 2. ₹335

✘ 3. ₹288

✔ 4. ₹311

Q.4 If the simple interest on a sum of ₹x at 6 % p.a. for two years is double the simple interest on another sum of ₹y at 9 % per annum for three years, then which of the following is true?

Ans ✘ 1. $x = 2y$

✔ 2. $x = 4.5y$

✘ 3. $3x = 7y$

✘ 4. $2x = 5y$

Q.5 The average of 12 numbers is 18.5. The average of first six numbers is 16.8 and that of the last seven numbers is 17.4. If the 6th number is excluded, then what is the average (correct to one decimal place) of remaining 11 numbers?

Ans ✘ 1. 17.9

✘ 2. 18.9

✘ 3. 18.4

✔ 4. 20.1

Q.6

The given Bar Graph presents the number of different types of vehicles exported by a company in 2017 and 2018.

Different types of vehicles exported by a company in 2017 & 2018

■2017 ■2018

Type of vehices
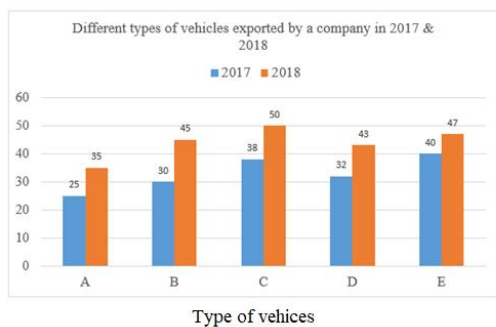
What is the ratio of the total number of vehicles exported in 2017 of types B, C and D to that of vehicles exported in 2018 of the types A, D and E?

Ans
1. 6 : 5 ✗
2. 7 : 10 ✗
3. 4 : 5 ✓
4. 18 : 25 ✗

Q.7 Amit bought an article for ₹310 and sold it at a loss of 25 %. With this money, he bought another article and sold it at a gain of 40 %. What was his overall gain or loss percent?

Ans
1. Loss 2.5 % ✗
2. Gain 8 % ✗
3. Loss 4 % ✗
4. Gain 5 % ✓

Q.8 To do a certain work, the ratio of efficiencies of A and B is 3 : 7, working together, they can complete a work in 14 days. B started the work and after working for 8 days, he left and A completed the remaining work. For how many days did A work?

Ans
1. 28 ✓
2. 30 ✗
3. 24 ✗
4. 27 ✗

Q.9 A and B can complete a certain work in 24 days and 42 days, respectively. A started the work and after x days, B joined him and the whole work was completed in 20 days. The value of x is:

Ans
1. 11 ✗
2. 13 ✓

✗ 3. 7

✗ 4. 9

Q.10 A boat goes a distance of 4 km upstream in 2 hours and the same distance downstream in 20 minutes. How long will it take to go $10\frac{1}{2}$ km in still water?

Ans

✓ 1. $1\frac{1}{2}$ hours

✗ 2. 48 minutes

✗ 3. $1\frac{1}{4}$ hours

✗ 4. 1 hour

Q.11 The marked price of an article is ₹882. It is sold for ₹806.40. If there is a loss of 4%, then by what percent above the cost was the article marked?
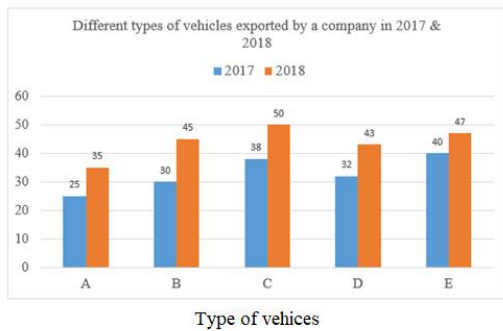
Ans ✗ 1. 8

✗ 2. 6

✗ 3. 4

✓ 4. 5

Q.12 The given Bar Graph presents the number of different types of vehicles exported by a company in 2017 and 2018.

Different types of vehicles exported by a company in 2017 & 2018

■ 2017 ■ 2018

Type of vehices

The increase in the exports in 2018 as compared to that in 2017 is closest to 32 % in case of vehicles of type:

Ans ✗ 1. B

✗ 2. A

✓ 3. C

✗ 4. D

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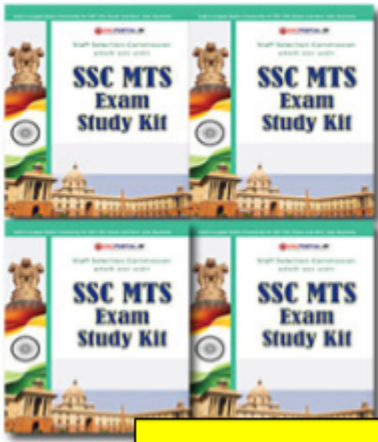~~Rs. 6,000~~

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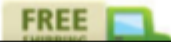
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Q.13 The diameter of the base of a right circular cone is 10 cm and its height is 12 cm. What is the total surface area (in cm^2) of the cone?

Ans
✔ 1. $90\ \pi$
✘ 2. $70\ \pi$
✘ 3. $84\ \pi$
✘ 4. $65\ \pi$

Q.14 A car travels for 6 hours at different speeds. For the first two hours at 60 m/s, for the next 2 hours at 50 m/s and for the remaining time at x m/s. If the average speed for the entire journey is 52 m/s, what is the value of x?

Ans
✔ 1. 46
✘ 2. $44\frac{1}{2}$
✘ 3. 48
✘ 4. $45\frac{1}{2}$

Q.15 If $(x + 10)\%$ of 200 is $33\frac{1}{3}\%$ more than $x\%$ of 180, then 10% of $(x + 20)$ is what percent less than 40% of x?

Ans
✘ 1. 55
✘ 2. 60
✘ 3. 70
✔ 4. 65

Q.16 A sum of ₹3200 was to be divided between A, B, C and D in the ratio $4 : 6 : 7 : 3$. But by mistake, it was divided in the ratio $3 : 5 : 6 : 2$. As a result, who got $16\frac{2}{3}\%$ less than her due?

Ans
✘ 1. C
✘ 2. A
✘ 3. B
✔ 4. D

Q.17 The areas of three adjacent faces of a cuboid are 18 cm^2, 20 cm^2 and 40 cm^2. What is the volume (in cm^3) of the cuboid?

Ans
✗ 1. 144
✗ 2. 100
✔ 3. 120
✗ 4. 125

Q.18 There are 96 students in a class, out of which the number of girls is 40% more than that of the boys. The average score in mathematics of the boys is 40% more than the average score of girls. If the average score in mathematics of all the students is 63, then what is the average score of the girls in mathematics?

Ans
✗ 1. 51
✔ 2. 54
✗ 3. 55
✗ 4. 57

Q.19 A person sold an article at a loss of 12 % . Had he sold it for ₹162 more, he would have gained 24 % . If the article is sold for ₹360 then loss percent is:

Ans
✗ 1. 18
✔ 2. 20
✗ 3. 25
✗ 4. 15

Q.20 What is the sum of median and mode of the data
8, 1, 5, 4, 9, 6, 3, 6, 1, 3, 6, 9, 1, 7, 2, 6, 5?

Ans
✗ 1. 13
✔ 2. 11
✗ 3. 12
✗ 4. 14

Q.21 The ratio of ages of A and B, four years ago, was 7 : 5. The ratio of their ages, 6 years from now, will be 19 : 15. What is the ratio of the present ages of A and B?

Ans
✗ 1. 2 : 1
✗ 2. 5 : 2
✔ 3. 4 : 3

✗ 4. $3:2$

Q.22 The value of $\frac{5+2 \text{ of } 3 \div 3 \text{ of } 2 \times 3}{9+72 \div 3 - 2 \times (3-2) - 3}$ is $\frac{a}{b}$, where a and b are prime numbers. The value of $(b-a)$ is:

Ans ✗ 1. 7

✗ 2. 3

✔ 3. 5

✗ 4. 4

Q.23 A wire encloses an area of 616 cm^2 when it is bent in the form of a circle. If the wire is bent in the form of a square, then its area (in cm^2) is very nearly equal to: $\left(\text{Take } \pi = \frac{22}{7}\right)$

Ans ✗ 1. 400

✗ 2. 576

✗ 3. 441

✔ 4. 484

Q.24 What is the ratio of the mean proportional between 4.5 and 0.5, and the third proportional to 4.5 and 9.0?

Ans ✗ 1. $3:8$

✗ 2. $2:9$

✗ 3. $1:6$

✔ 4. $1:12$

Q.25 The value of $\left(5\frac{1}{4} \div \frac{3}{7} \text{ of } \frac{1}{2}\right) \times \left(5\frac{1}{4} \times \frac{3}{7} \div \frac{1}{2}\right) \div \left(5\frac{1}{4} \div \frac{3}{7} \times \frac{1}{2}\right)$ is:

Ans ✗ 1. $\frac{9}{8}$

✗ 2. $\frac{1}{18}$

✔ 3. 18

✗ 4. $\frac{8}{9}$

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