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Section : **Numerical Aptitude**

Q.1 Parikh sold his pen at a profit of ₹11. He calculated the profit percentage on selling price and found it to be 25%. The cost price (in ₹) of the pen is:

Ans
1. 33 ✔
2. 24 ✘
3. 36 ✘
4. 44 ✘

Q.2 After allowing a discount of 12.5%, shopkeeper makes a profit of 25% on a bag. At what percent higher than the cost price did he mark the bag? (correct to nearest integer)

Ans
1. 35% ✘
2. 43% ✔
3. 41% ✘
4. 38% ✘

Q.3 Age of A is 6 years more than three times the age of B. After three years, A's age will be 8 years more than twice the age of B. The average of present ages of A and B (in years) is:

Ans
1. 12 ✘
2. 11 ✘
3. 14 ✘
4. 13 ✔

Q.4 A Woman travelling at 130% of her usual speed reaches her office 12 minute early. Her usual time to cover the journey is:

Ans
1. 0.52 hr ✔
2. 0.48 hr ✘
3. 2 hrs ✘

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✗ 4. 1 hr

Q.5 The value of [12 ×5 - {200 - (501 + 247 - 386)}]÷2 is:

Ans
✗ 1. 162
✗ 2. 161
✓ 3. 111
✗ 4. 82

Q.6 If an article is sold at 23% profit instead of 14% profit, then the profit would be ₹189 more. What is the cost price?

Ans
✓ 1. ₹2100
✗ 2. ₹2105
✗ 3. ₹2340
✗ 4. ₹1800

Q.7 A can do a work in 15 days. B is 25% more efficient than A. In how many days, working together A and B will complete the same work?

Ans
✗ 1. $\frac{21}{4}$
✗ 2. $\frac{24}{5}$
✓ 3. $\frac{20}{3}$
✗ 4. $\frac{25}{7}$

Q.8 The area of the sheet metal needed to make a box of size 7 cm × 8 cm × 9 cm is:

Ans
✓ 1. 382 cm^2
✗ 2. 156 cm^2
✗ 3. 412 cm^2
✗ 4. 139 cm^2

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Q.9 The Table shows the Number of Laptops and Desktops manufactured by a company.

Year	2008	2009	2010	2011	2012
Laptops	14400	20500	12800	16400	18600
Desktops	12800	24700	19200	20200	14900

What was the difference in the total number of Laptops and Desktops manufactured in 2009 to the total number of Laptops and Desktops manufactured in 2011?

Ans
✔ 1. 8600
✘ 2. 5600
✘ 3. 6800
✘ 4. 8200

Q.10 The Table shows the Number of Laptops and Desktops manufactured by a company.

Year	2008	2009	2010	2011	2012
Laptops	14400	20500	12800	16400	18600
Desktops	12800	24700	19200	20200	14900

Approximately what was the percentage decrease in number of desktops manufactured in 2012 from 2011? (correct to nearest integer)

Ans
✘ 1. 30
✘ 2. 22
✘ 3. 28
✔ 4. 26

Q.11 A bag contains ten rupee, five rupee and two rupee notes in the ratio 10 : 5 : 2. The total value of five rupee notes in the bag is ₹84 more than that of two rupee notes. The total value of ten rupee notes in the bag (in ₹) is:

Ans
✘ 1. 350
✘ 2. 450
✘ 3. 300
✔ 4. 400

Q.12 The temperature in ^{0}C of 11 days recorded as follows :
29, 32, 30, 15, 21, 24, 23, 27, 26, 30, 33 the Median of the temperature is:

Ans
✔ 1. 27
✘ 2. 26
✘ 3. 23
✘ 4. 18

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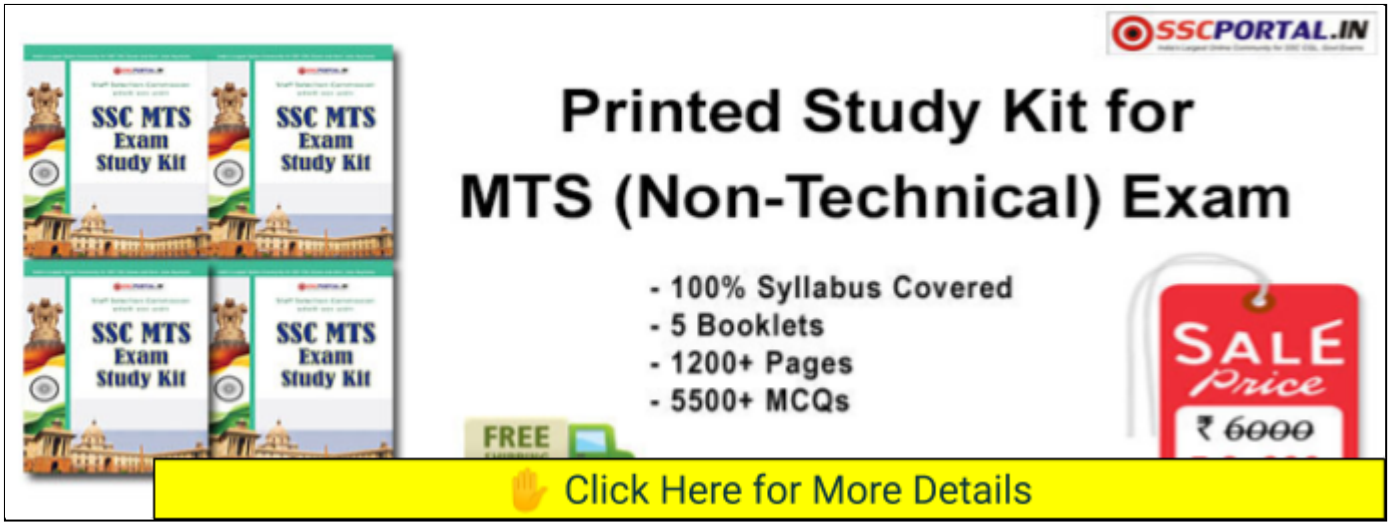

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Q.13 The volume of prism is 308 cm^3 and height is 11 cm. The base area of prism is:

Ans
1. ✗ 21 cm^2
2. ✗ 14 cm^2
3. ✓ 28 cm^2
4. ✗ 22 cm^2

Q.14 The average of 10 numbers is P and the average of 4 of these numbers is Q. If the average of remaining numbers is R then which of the following is correct:

Ans
1. ✗ $3P = 2Q + 4R$
2. ✗ $5P = 3Q + 2R$
3. ✓ $5P = 2Q + 3R$
4. ✗ $4P = 2Q + 3R$

Q.15 The Table shows the Number of Laptops and Desktops manufactured by a company.

Year	2008	2009	2010	2011	2012
Laptops	14400	20500	12800	16400	18600
Desktops	12800	24700	19200	20200	14900

What is the average number of laptops manufactured by a company from 2008 to 2012?

Ans
1. ✗ 13550
2. ✗ 16140
3. ✓ 16540
4. ✗ 14260

Q.16 If a : b = 2 : 3 and b : c = 2 : 3, then what is the value of $(3a^2 + b^2 - c^2) : (a^2 + 2b^2 - c^2)$?

Ans
1. ✗ 3 : 5
2. ✗ 4 : 5
3. ✗ 5 : 7
4. ✓ 3 : 7

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Q.17 A sum doubles in 4 years at a certain rate of compound interest. In how many years does it amount to 8 times itself at the same rate?

Ans
1. ✗ 9
2. ✓ 12
3. ✗ 15
4. ✗ 6

Q.18 The largest three digit number that is exactly divisible by 6, 7 and 8 is:

Ans
1. ✗ 999
2. ✗ 168
3. ✗ 358
4. ✓ 840

Q.19 A mixture contains milk and water in the ratio (by volume) 5 : 3 and another mixture, of the same volume as that of the former, contains water and milk in the ratio (by volume) 1 : 3. In what ratio, two mixtures be mixed in order to obtain a new mixture consisting of milk and water in the ratio (by volume) 7 : 3?

Ans
1. ✓ 2 : 3
2. ✗ 3 : 4
3. ✗ 5 : 6
4. ✗ 3 : 2

Q.20 If 80% of X is 36 more than 60% of Y and 120% of X is equal to Y, then the difference between X and Y is:

Ans
1. ✗ 80
2. ✗ 100
3. ✓ 90
4. ✗ 60

Q.21 The diagonal of a square measures $6\sqrt{2}$ cm. The measure of the diagonal of a square whose area is twice that of the first square is:

Ans
1. ✓ 12 cm

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2. $12\sqrt{2}$ cm
3. 6 cm
4. $6\sqrt{2}$ cm

Q.22 A boat takes 80 minutes to row 12 km upstream and 60 minutes to row 15 km downstream. How long will it take to row a distance of 36 km in still water?

Ans
1. 2 hours
2. 3 hours
3. 4 hours
4. 2.5 hours

Q.23 A work can be completed by 35 workers in 30 days. If 5 workers leave after every 10 days then in how many days will the work be completed?

Ans
1. 35.5 days
2. 37.5 days
3. 40 days
4. 50 days

Q.24 A certain sum amounts to ₹20720 in four years and ₹24080 in six years at a certain rate of simple interest. The sum (in ₹) is:

Ans
1. 11000
2. 12000
3. 14000
4. 15000

Q.25 The value of $5\frac{1}{3} \times 2\frac{1}{7} \times 9\frac{2}{5} \times 4\frac{3}{8} \times 2\frac{6}{47}$ is:

Ans
1. 1
2. 1000
3. 100
4. 10

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