

Section : - Quantitative Aptitude

Expenditures of a Company (in Lakh Rupees) per Annum Over the given Years.

Year	Item of Expenditure				
	Salary	Fuel and Transport	Bonus	Interest on Loans	Taxes
1998	288	98	3.00	23.4	83
1999	342	112	2.52	32.5	108
2000	324	101	3.84	41.6	74
2001	336	133	3.68	36.4	88
2002	420	142	3.96	49.4	98

Question : -1

The total amount of bonus paid by the company during the given period is approximately what percent of the total amount of salary paid during this period?

- 0.1
- 1
- 1.1
- 1.2
- 2.2

Correct Answer : 1

Answer Explanation -

$$\begin{aligned}\text{Required percentage} &= \left[\frac{(3.00 + 2.52 + 3.84 + 3.68 + 3.96)}{(288 + 342 + 324 + 336 + 420)} \times 100 \right] \% \\ &= \left[\frac{17}{1710} \times 100 \right] \% \\ &\approx 1\%\end{aligned}$$

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Question : -2

Study the following table and answer the questions based on it.

What is the average amount of interest per year which the company had to pay during this period?

- Rs. 32.43 lakhs
- Rs. 33.72 lakhs
- Rs. 34.18 lakhs
- Rs. 36.66 lakhs
- None of the above

Correct Answer : Rs. 36.66 lakhs

Answer Explanation -

Average amount of interest paid by the Company during the given period

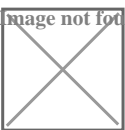
$$= \text{Rs.} \left[\frac{23.4 + 32.5 + 41.6 + 36.4 + 49.4}{5} \right] \text{ lakhs}$$

$$= \text{Rs.} \left[\frac{183.3}{5} \right] \text{ lakhs}$$

$$= \text{Rs. } 36.66 \text{ lakhs.}$$

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Question : -3

Look at the following series and find the missing number

1676, 1354, 1064 , ? , 580 , 386

- 942
- 888
- 956
- 806
- None of the above

Correct Answer : 806

Answer Explanation -

The series is

$$(41)2 - 5 = 1676,$$

$$(37)2 - 15 = 1354,$$

$$(33)2 - 25 = 1064,$$

$$(29)2 - 35 = \mathbf{806},$$

$$(25)2 - 45 = 580,$$

$$(21)2 - 55 = 386,$$

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Question : -4

Look at the following series and find the missing numbers

14, ? , 56, 272, 1568, 9344

- 40
- 24
- 25
- 20
- None of the above

Correct Answer : 20

Answer Explanation -

This series is

$$14 + 6 = \mathbf{20},$$

$$20 + 62 = 56,$$

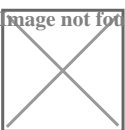
$$56 + 63 = 272,$$

$$272 + 64 = 1568,$$

$$1568 + 65 = 9344,$$

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Question : -5

Look at the following series and find the missing value

10 , 13 , ? , 95 , 386, 1937

- 30
- 18
- 49
- 63
- None of the above

Correct Answer : 30

Answer Explanation -

This Series is based on

$$10 * 1 + 3 = 13$$

$$13 * 2 + 4 = 30,$$

$$30 * 3 + 5 = 95,$$

$$95 * 4 + 6 = 386,$$

$$386 * 5 + 7 = 1937$$

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Question : -6

Look at the following series and find the missing number

2800 , 1408 , 712 , ? , 190 , 103

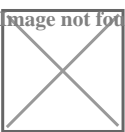
- 284
 - 245
 - 364
 - 259
 - None of the above
- Correct Answer : 364

Answer Explanation -

This series is $\div 2 + 8$ repeated

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Question : -7

Look at the following series and find the missing number

150 , 275 , 339 , 366 , 374 , ?

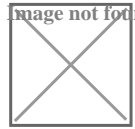
- 490
- 395
- 431
- 375
- None of the above

Correct Answer : 375

Answer Explanation -

The series is $+5^3, +4^3, +3^3, +2^3, +1^3$

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Question : -8

$$2508 \div 15.02 + ? \times 11 = 200$$

- 13
- 8
- 4
- 3
- 5

Correct Answer : 3

Answer Explanation -

$$2508 \div 15.02 \div ? \times 11 = 200$$

$$? \ 2508/15 + ? \times 11 = 200$$

$$? \ ? = (200 - 167.2) \times 1/11 = 2.98 \ ? \ 3$$

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Question : -9

$$2375.85 \div 18.01 - 4.525 \times 8.05 = ?$$

- 86
- 96
- 92
- 84
- 88

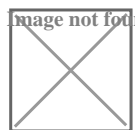
Correct Answer : 96

Answer Explanation -

$$? = 2375.85 \div 18.01 - 4.525 \times 8.05$$

$$= 2376 \div 18 - 4.5 \times 8 = 132 - 36 = 96$$

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Question : -10

$$198.995 \times 12.005 + 16.25 \times 6.95 = ?$$

- 2620

- 2600
- 2590
- 2580
- 2500

Correct Answer : 2500

Answer Explanation -

$$\begin{aligned} ? &= 198.995 \times 12.005 + 16.24 \times 6.95 \\ &= 199 \times 12 + 16 \times 7 = 2388 + 112 = 2500 \end{aligned}$$

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Question : -11

$$127.007 \times 7.998 + 6.05 \times 4.001 = ?$$

- 1090
- 1200
- 1240
- 1140
- 1040

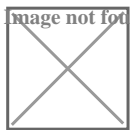
Correct Answer : 1040

Answer Explanation -

$$\begin{aligned} ? &= 127.007 \times 7.998 + 6.05 \times 4.001 \\ &= 127 \times 8 + 6 \times 4 = 1016 + 24 = 1040 \end{aligned}$$

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Question : -12

$$17.995 \times 16.005 + 15.999 \times 15.001 = ?$$

- 518
- 528
- 578
- 558
- 548

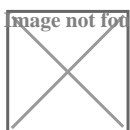
Correct Answer : 528

Answer Explanation -

$$\begin{aligned} ? &= 17.995 \times 16.005 + 15.999 \times 15.001 \\ &= 18 \times 16 + 16 \times 15 = 16 \times (18 + 15) \\ &= 16 \times 33 = 528 \end{aligned}$$

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Question : -13

$198.001 \times 25 + 112.05 \times 24.998 = ?$

- 7570
- 7500
- 7520
- 7550
- 7750

Correct Answer : 7750

Answer Explanation -

$$\begin{aligned} ? &= 198.001 \times 25 + 112.05 \times 24.998 \\ &= 198 \times 25 + 112 \times 25 \\ &= 25(198 + 112) \\ &= 25 \times 310 = 7750 \end{aligned}$$

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Question : -14

$(21 + 99) \times (30 - 19.02) = ?$

- 20000
- 40000
- 60000
- 70000
- None of the above

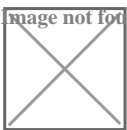
Correct Answer : None of the above

Answer Explanation -

$$\begin{aligned} &(21+ 99) \times (30 - 19.02) \\ ? &(21+ 99) \times (30 - 19) \\ ? &120 \times 11 = 1320 \end{aligned}$$

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Question : -15

$21 + 3.7 \times 2.9 = ?$

- 36
- 32
- 38
- 42
- 49

Correct Answer : 32

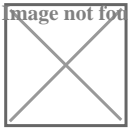
Answer Explanation -

$$21 + 3.7 \times 2.9 = ?$$

? ? 21+ 4 x 3 ? 21 + 12 ? 33 ? 32

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Question : -16

$$3739 + 164 \times 27 = ?$$

- 105400
- 4200
- 8200
- 4500
- 4520

Correct Answer : 8200

Answer Explanation -

$$3739 + 164 \times 27 = ?$$

$$? = 3739 + 4428 = 8167 \quad ? \quad 8200$$

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Question : -17

$$26.823 \times 27.923 \times 4.5001 = ?$$

- 3500
- 3600
- 3700
- 3300
- 3400

Correct Answer : 3400

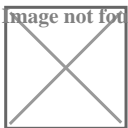
Answer Explanation -

$$26.823 \times 27.923 \times 4.5001$$

$$? \quad 27 \times 28 \times 4.5000 = 756 \times 4.5000 = 3402 \quad ? \quad 3400$$

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Question : -18

$$14.995 \times 8.001 \times 20.991 = ?$$

- 1950
- 2520
- 2590
- 2620
- 2720

Correct Answer : 2520

Answer Explanation -

$$? = 14.995 \times 8.001 \times 20.991$$

$$? 15 \times 8 \times 21 = 2520$$

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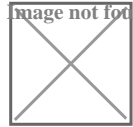


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Question : -19

$$36.98276421 \times 21.00002 = ?$$

- 775
- 785
- 790
- 800
- 750

Correct Answer : 775

Answer Explanation -

$$36.98276421 \times 21.00002$$

Using nearest value in whole number for 36.9827421 is 37 and 21.0002 is 21

$$? 37 \times 21 = 777 ? 775$$

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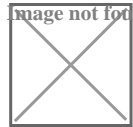


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Question : -20

$$23/5 \times 15/26 \times 283.75 = ?$$

- 440
- 435
- 410
- 425
- 415

Correct Answer : 425

Answer Explanation -

$$? = 23/5 \times 15/26 \times 283.75$$

$$? 13/5 \times 15/16 \times 284 = 426 ? 425$$

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Question : -21

$$157/8 \times 231/5 + 34/5 \times 51/8 = ?$$

- 360
- 365
- 370
- 375
- 385

Correct Answer : 385

Answer Explanation -

$$\begin{aligned} ? &= 127/8 \times 116/5 + 19/5 \times 41/8 \\ &= 14732/40 + 779/40 = 15511/40 = 387.775 \end{aligned}$$

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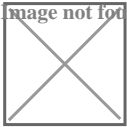


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Question : -22

$$(2/3) \times (6/8) \times (2/3) \times (3/4) = ?$$

- 0.25
- 0.5
- 0.75
- 1
- 11.5

Correct Answer : 0.25

Answer Explanation -

$$(2/3) \times (6/8) \times (2/3) \times (3/4) = 1/4 = 0.25$$

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Question : -23

$$503 \times 201 = ?$$

- 101100
- 1000000
- 110000
- 110003
- 1100033

Correct Answer : 101100

Answer Explanation -

$$503 \times 201 = 101103$$

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Question : -24

$$6885.009 - 419.999 - 94.989 = ?$$

- 6650
- 6470
- 6370
- 6680
- 6200

Correct Answer : 6370

Answer Explanation -

$$? = 6885.009 - 419.999 - 94.989$$

$$= 6885 - 420 - 95 = 6370$$

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Question : -25

$$840.003 \div 23.999 = ?$$

- 47
- 8
- 35
- 18
- 28

Correct Answer : 35

Answer Explanation -

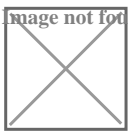
$$? = 840.003 \div 23.999$$

Here one number is increased and other is decreased to their nearest whole number

$$= 840 \div 24 = 35$$

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Question : -26

$$16.003 \times 27.998 - 209.010 = ?$$

- 250
- 240
- 290
- 280
- 270

Correct Answer : 240

Answer Explanation -

$$? = 16.003 \times 27.998 - 209.010$$

$$? \times 16 \times 28 - 210 = 448 - 210$$

$$? = 238 \times 240$$

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Question : -27

$$125.009 + 69.999 + 104.989 = ?$$

- 300
- 350
- 200
- 250
- 400

Correct Answer : 300

Answer Explanation -

$$125.009 + 69.999 + 104.989 = ?$$

Lets assume, each value is approximated to nearest whole number

$$? \times ? \times 125 + 70 + 105$$

$$? \times ? \times 300$$
