RBI ASSISTANT 2023

MOST EXPECTED

SIMPLIFICATION

QUESTIONS PART-2

देखो, सीखो और सफल हो जाओ

MATHS

LIVE 01:00 PM

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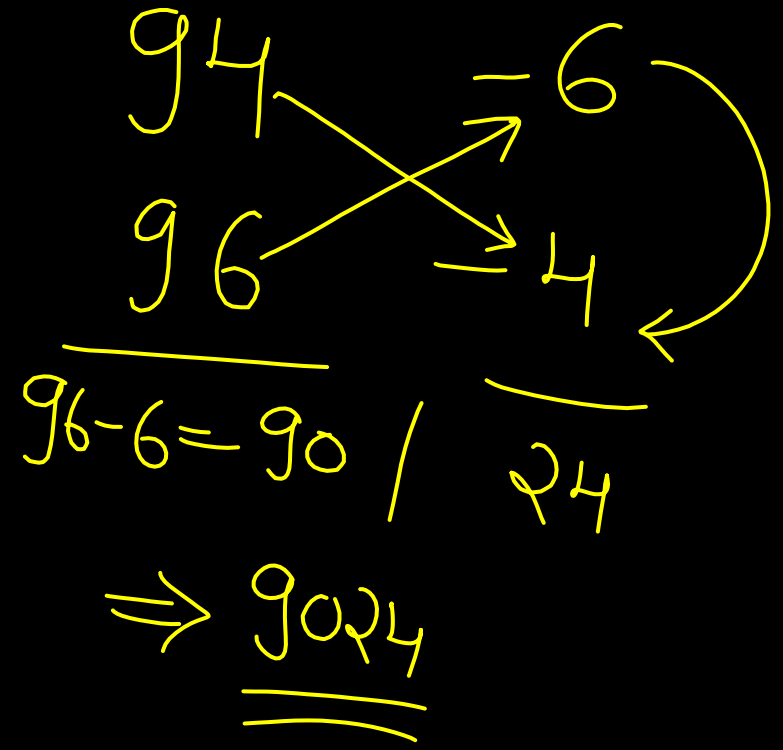

Question 1- 11.11% of 8100 + 23.23% of 9900 = ?

$= \frac{1}{9} \times 8100 + \frac{23}{99} \times 9900$

$= 900 + 2300$

$= 3200$

A. 1230

B. 2300

C. 4100

D. 3200

E. None of these

Hint- $11\frac{1}{9}\% = 11.11\% = \frac{1}{9}$

Question 2- $\sqrt[3]{421875} + 19.19\%$ of $19800 + 45 \times 45$

$7^3 = 343$

$8^3 = 512$

$= 75 + \frac{19}{99} \times 19800 + 2025$

$= 75 + 3800 + 2025$

$= 3800 + 2100$

$= 5900$

A. 9500

B. 4550

C. 2750

D. 5900

E. None of these

Question 3- $5\frac{1}{4} + 3\frac{5}{6} = ? - 7\frac{1}{3}$

A. $16\frac{5}{12}$

B. $12\frac{1}{12}$

C. $\frac{11}{12}$

D $\frac{11}{16}$

E. None of these

$x = (5+3+7) + \left[\frac{1\times3}{4\times3} + \frac{5\times2}{6\times2} + \frac{1\times4}{3\times4}\right]$

$= 15 + \left[\frac{17}{12}\right]$

$= 15 + 1\frac{5}{12}$

$= 16\frac{5}{12}$

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Question 4- 14.28% of 2800 + 42.84% of 1400 + 23.23% of 11500= ?

प्रश्न 4- 2800 का 14.28% + 1400 का 42.84% + 11500 का 23.23% = ?

$= \frac{1}{7} \times 2800 + \frac{3}{7} \times 1400 + \frac{23}{99} \times 11500$

$= 400 + 600 +$

$= 1000 +$ Decimal

A. 2000

B. 1200

C. 1500

D. 2300

E. None of these

Hint- $12.5\% = \frac{1}{8}$

Question 5- 11.11% of 8100 + 22.22% of 7200 – 44.44% of 5400 = ?

प्रश्न 5- 8100 का 11.11% + 7200 का 22.22% – 5400 का 44.44% = ?

$= \frac{1}{9} \times 8100 + \frac{2}{9} \times 7200 - \frac{4}{9} \times 5400$

$= 900 + 1600 - 2400$

$= 100$

A. 200
B. 100
C. 300
D. 400
E. None of these

Hint- $11\frac{1}{9}\% = 11.11\% = \frac{1}{9}$

Question 6- 9.09% of 3300 + 36.36% of 4400 + 45.45% of 2200 =?

प्रश्न 6- 3300 का 9.09% + 4400 का 36.36% + 2200 का 45.45% =?

$= \frac{1}{11} \times 3300 + \frac{4}{11} \times 4400 + \frac{5}{11} \times 2200$

$= 2900$

A. 1900

B. 2900

C. 3900

D. 4900

E. None of these

Hint- $9\frac{1}{11}\% = 9.09\% = \frac{1}{11}$

Question 7- 12.5% of 51200 + 62.5% of 8000 – 37.5% of 1600 = ?

प्रश्न 7- 51200 का 12.5% + 8000 का 62.5% – 1600 का 37.5% = ?

$$= \frac{1}{8} \times 51200 + \frac{5}{8} \times 8000 - \frac{3}{8} \times 1600$$

$$= 6400 + 5000 - 600$$

$$= 10800$$

A. 12800

B. 11800

C. 13800

D. 10800

E. None of these

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Question 8- $43 \times 37 + 99 \times 23 + 2560 \div 8 = ?$

-1

$(40+3)(40-3)$

$= 1591 + 2277 + 0320$

$(100-1) \times 23$

$=$

$$\begin{array}{r|r} 2300 & 3000 \\ -23 & 1000 \\ \hline 2277 & 180 \\ & 8 \\ \hline & 4188 \end{array}$$

A. 1188

B. 2188

C. 3388

D. 4488

E. 4188

Question 9- $\{55 - (76 - 54 \div 9 \times 8)\} = ?$

$\{55 - (76 - 48)\}$

$= 55 - 28$

$= 27$

A. 36

B. 63

C. 9

D. 27

E. None of these

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Question 10- 30% of 140 + $\sqrt[3]{2197} - 4 = ?$

प्रश्न 10- 120 का 40% + $\sqrt[3]{1728} - 4 = ?$

$\sqrt{2197}$ → 13

$= 42 + 13 - 4$

$= 51$

A. 6

B. 33

C. 24

D. 51

E. None of these

Question 10- 30% of 140 + $\sqrt[3]{2197} - 4 = ?$

प्रश्न 10- 120 का 40% + $\sqrt[3]{2197} - 4 = ?$

A. 6

B. 33

C. 24

D. 51

E. None of these

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Question 11- $\sqrt{1296} - \sqrt{2116} + \sqrt{4096} = ?$

$\sqrt{1296}$

36 | 34

$3^2 = 9$, $4^2 = 16$, $3 \times 4 = 12$

$\sqrt{4096}$ — 64, 66

$= 36 - 46 + 64$

$= 54$

A. 45

B. 36

C. 9

D. 44

E. None of these

Question 12- $34 \times 24 \div 2 + 38 = ?$

$= 408 + 38$

$= 446$

A. 05

B. 23

C. 32

D. 104

E. None of these

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Question 13- $(\cancel{360} + \cancel{48}) \div 6 - 10 = ?$

60 8

$= 68 - 10$

$= 58$

A. 49

B. 31

C. 13

~~D. 58~~

E. None of these

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18000
1300
50
12

96 −4
88 −12
88−4=84 | 48

102 +2
107 +7
109 | 14

Question 14- 96 × 88 + 102 × 107 – ~~24800~~ ÷ ~~8~~ = ?

= 08448 + 10914 − 3100

= 19362 − 3100

= 262

A. 145

B. 244

C. 343

D. 19062

E. None of these

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Question 15- $5^3 \times 125^2 \div 625 \times 25^3 = 5^?$

$[5^3]^2$

$5^4 \Rightarrow 625$

$[5^2]^3 = 5^6$

$$\frac{5^3 \times 5^6 \times 5^6}{5^4} = \frac{5^{15}}{5^4}$$

5^{15-4}

$\Rightarrow 5^{11} = 5^x$

$x = 11$

A. 12

B. 13

C. 14

D. 11

E. None of these

Question 16- 7645 + 3188 + 4463 = ?

14000
1100
180
16
15296

A. 25196
B. 1455
C. 15295
D. 21567
E. None of these

Question 17- $\sqrt{55+\sqrt{64+\sqrt{289}}} = X+20$

$64+17=81$

$\sqrt{81}$

$\sqrt{64}$

$x+20=8$

$x=-12$

A. -3

B. -30

C. -12

D. -11

E. None of these

Question 18- 666 × 37 + 4588 – 2346 = ?

3
114X6
37

= 18 + 4588 – 2346

= 4606 – 2346

= 260

A. 1160
B. 1360
C. 1460
D. 4560
E. None of these

Question 19- $\frac{4}{13}$ of 16900 + $\frac{5}{17}$ of 1700 – 37.5% of 240 = ?

$= 5200 + 500 - \frac{3}{8} \times 240$

$= 5700 - 90$

$= 5610$

A. 1464

B. 1056

C. 5600

D. 5610

E. None of these