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The Question Bank

Simplification Questions for IBPS PO Pre, RRB Scale I Pre, SBI PO Pre, SBI Clerk Mains and IBPS Clerk Mains Exams.

Directions: What value should come in place of Question mark (?) in the following question?

1. $1\frac{8}{13} \times 60\frac{2}{3} \div 2 + 17 = ?$

A. 213 B. 41 C. 66 D. 115 E. None of these

2. $\frac{1}{?} \times 425 \div 5 - 2 = 4 \times 156.25$

A. 19 B. 34 C. 17 D. 8.5 E. None of these

3. $?\%$ of $480 + 28.5\%$ of $200 = 3^2 \times 25$

A. 40 B. 55 C. 35 D. 45 E. None of these

4. $\frac{1}{5}\%$ of $10^5 + \frac{1}{2}\%$ of $x^2 = 488$

A. 24 B. 48 C. 2400 D. 240 E. None of these

5. $12\frac{1}{3}$ of $321 - ? = 18.5 \times 14$

A. 3750 B. 3700 C. 3755.5 D. 3792.5 E. None of these

6. $3\frac{12}{67} \times 59\frac{32}{71} \times 16\frac{2}{7} + 3\frac{1}{2} = ?$

A. 3084.5 B. 3125.5 C. 3245.5 D. 3081.5 E. None of these

7. $\sqrt{37249} \times \sqrt{2809} - (87)^2 = (?)^2 + (48)^2 - 5$

A. 25 B. 21 C. 24 D. 23 E. 19

8. $(6963 \div 33) + (745 \div 35) + (9580 \div 45) = ?$

A. 458.5 B. 437.8 C. 478.6 D. 445.2 E. 410.2

9. $[(9\sqrt{5} + 4\sqrt{5}) \times (11\sqrt{5} + 19\sqrt{5})] - (43)^2 = ?$

A. 176 B. 143 C. 205 D. 101 E. None of these

10. $14\frac{2}{3} \times \sqrt{729} - 23\%$ of $1750 = ?^{1/2} - 23.5$

A. 144 B. 289 C. 361 D. 441 E. 625

11. $5\frac{11}{13} \times ? \frac{7}{12} \times 2\frac{13}{19} + 18\% \text{ of } 552 = 218.36$

A. 7 B. 6 C. 5 D. 9 E. None of these

12. $8^{4.2} \times 64^{6.4} \times 88^{2.25} \times 11^{?} = 88^{19.25}$

A. 7.25 B. 7 C. 18 D. 6 E. None of these

13. $\frac{1}{2}$ of 52846 + 35% of ? – 85% of 42320 = 2547

A. 34560 B. 35560 C. 32560 D. 38560 E. None of these

14. $\frac{(4^3 \times 14 + 4060)}{12} = 7021 \div ?$

A. 19 B. 7 C. 27 D. 17 E. None of these

15. $\left(4\frac{3}{4} \times 10\frac{2}{3} \times 4\frac{3}{8}\right) \div ? \frac{17}{21} = 9$

A. 23 B. 28 C. 24 D. 22 E. None of these

16. (15.01% of 52.02)% of 449.99 + 42.01 ÷ 2.99 × 12.03 = ?

A. 402 B. 143 C. 203 D. 278 E. 293

17. $(3.99)^3 + (12.01)^3 + ? = 502.11 \times 3.99$

A. 291 B. 216 C. 121 D. 345 E. 399

18. $4\frac{3}{4} \times 5\frac{11}{17} \times 25\frac{1}{2} = ?$

A. 456 B. 665 C. 684 D. 760 E. None of these

19. $12\frac{3}{5} \times 6\frac{3}{7} \times (?\% \text{ of } 125) = 81 \times 25$

A. 100 B. 50 C. 15 D. 25 E. None of these

20. $\frac{1}{3}$ of 4569 + 12% of ? + 21% of ? – 53^2 = 199

A. 4400 B. 4500 C. 5500 D. 5400 E. None of these

21. 38% of 430 + 54% of 890 = ?

A. 624 B. 634 C. 644 D. 654 E. None of these

22. $\frac{1}{5}$ of 645 + 7 $\frac{1}{3}$ of 33 – 3 $\frac{3}{4}$ of ? = 10% of (– 1090)

A. 124 B. 132 C. 136 D. 140 E. None of these

23. 126.543 + 12.3421 + 28.4528 + 19.1919 = ?

A. 186.5298 B. 86.5798 C. 174.3608 D. 72.6411 E. None of these

24. $(2^{-3}$ + 12.5% of 624) $\frac{1}{2^{-2}}$ = ?

A. 618.25 B. 312.5 C. 356.25 D. 324.5 E. None of these

25. 1665 ÷ 37 × $\frac{1}{3}$ of 22 + 102 = ?

A. 470 B. 530 C. 440 D. 430 E. None of these

26. 52% of 328 + 48% of 468 = ?

A. 395.2 B. 398.6 C. 387.20 D. 380.82 E. None of these

27. $(3^3$ + 6.25% of ?) $\frac{1}{4^{-2}}$ = $8^2 \times 3^2$

A. 160 B. 176 C. 144 D. 128 E. None of these

28. 3 $\frac{2}{5}$ of 580 + 7 $\frac{1}{7}$ of 147 + 3 $\frac{1}{3}$ of 603 = ?

A. 5032 B. 5642 C. 4842 D. 5582 E. None of these

29. 248.44 – 43.28 + 54.86 – 12.24 + 120.22 = 25% of ?

A. 1232 B. 1648 C. 1884 D. 1412 E. None of these

30. $\frac{6.25\% \ of \ 4096}{2^2+2^2}$ + 1 $\frac{1}{8}$ of 3^2 = 10% of 100 × ?

A. 42.125 B. 4.2125 C. 421.25 D. 482.25 E. None of these

31. 3 $\frac{6}{7}$ ÷ 33.33% of 162 × 2 $\frac{1}{2}$ = ?

A. $\frac{5}{14}$ B. 1 $\frac{1}{14}$ C. 2 $\frac{5}{7}$ D. 1 $\frac{5}{7}$ E. None of these

32. 49% of 520 + 51% of 480 = ?

A. 499.6 B. 498.6 C. 502.1 D. 505.8 E. None of these

33. $3.4 \times 1.8 \div 1.53 + 13.4 = ?$

A. 17.8 B. 16.8 C. 17.4 D. 16.4 E. None of these

34. $17\frac{5}{9}$ of $171 - 4\frac{3}{4}$ of $64 = ?$

A. 2588 B. 2698 C. 2794 D. 2928 E. None of these

35. $52.24 + 62.18 + 84.48 + 12.21 = ?$

A. 213.21 B. 215.21 C. 211.11 D. 213.11 E. None of these

36. $(1.6)^2 \div (0.8)^2 = [(2.4)^2 \div (0.4)^2] - ?$

A. 24 B. 32 C. 40 D. 36 E. None of these

37. $8\sqrt{8} \times 8^3 \div 8^{-5/2} = 2^?$

A. 24 B. 12 C. 18 D. 21 E. None of these

38. $(0.6)^2 \times 5 = ? - 348 \div 24$

A. 16.3 B. 13.9 C. 15.2 D. 17.2 E. None of these

39. $?\%$ of $(584.2 - 244.2) = (9)^2 + 21$

A. 40 B. 45 C. 30 D. 60 E. None of these

40. $\sqrt{2^?} = (8^2 \times 5^2) \div (200\sqrt{2})$

A. 6 B. 4 C. 5 D. 8 E. None of these

41. $86 - (86)^2 + 86 \times (86 + 86 \div 0.86) = ?$

A. 9696 B. 8486 C. 8686 D. 6844 E. None of these

42. $? = [(7)^{2.7} \times (343)^{1.5}]^{1/3}$

A. $7^{3.5}$ B. $7^{2.4}$ C. $7^{1.4}$ D. $7^{0.4}$ E. None of these

43. $\frac{262144}{4096} \times \frac{32768}{512} + ? = 5020.8$

A. 924.8 B. 634.8 C. 124.8 D. 1024.4 E. None of these

44. $(49)^{16} \div (343)^8 \times (2401)^3 \times 49 = 7^?$

A. 20 B. 21 C. 22 D. 23 E. None of these

45. 6482.1 × 0.02 + 2281.7 –? = 882.321 + 1439.31

A. 58.191 B. 39.911 C. 89.711 D. 93.611 E. None of these

46. 33.33% of 180 + 66.67% of 321 =? of 548

A. $\frac{2}{7}$ B. $\frac{1}{2}$ C. $\frac{4}{7}$ D. $\frac{3}{7}$ E. None of these

47. $(0.6)^3 \times 600 \div 6000$ of $(0.6)^2$ = ?

A. $\frac{6}{50}$ B. $\frac{3}{50}$ C. $\frac{2}{50}$ D. 1 E. None of these

48. 11.11% of 27.27% of 8.33% of 3564 = ?

A. 5 B. 7 C. 9 D. 8 E. None of these

49. $\sqrt{11449} \times \sqrt{6241} - 54^2 = \sqrt{2} + 74^2$

A. 3844 B. 3721 C. 3481 D. 3638 E. None of these

50. $(3\sqrt{8} + \sqrt{8}) \times (8\sqrt{8} + 7\sqrt{8}) - 98$ =?

A. 2√8 B. 8√8 C. 382 D. 386 E. None of these

Correct Answers:

1	2	3	4	5	6	7	8	9	10
C	C	C	D	B	D	E	D	D	B
11	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**
A	E	A	D	C	C	B	C	E	B
21	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**
C	E	A	B	D	A	C	A	E	B
31	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**
E	A	C	B	C	B	D	A	C	C
41	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**
C	**B**	**A**	**C**	**C**	B	B	C	B	C

Explanations:

1.

$1\frac{8}{13} \times 60\frac{2}{3} \div 2 + 17 = ?$

$\frac{21}{13} \times \frac{182}{3} \times \frac{1}{2} + 17 = ?$

$7 \times 7 + 17 = ?$

$? = 66$

Hence, option C is correct.

2.

$\frac{1}{?} \times 425 \div 5^{-2} = 4 \times 156.25$

$625 = \frac{1}{?} \times 425 \times 25$

$? = \frac{425}{25} = 17$

Hence, option C is correct.

3. ?% of 480 + 28.5% of 200 = $3^2 \times 25$

?% of 480 = 225 – 57 = 168

$? = 168 \times \frac{100}{480}$

$? = 35$

Hence, option C is correct.

4.

$\frac{1}{5}\%$ of $10^5 + \frac{1}{2}\%$ of $x^2 = 488$

$\frac{1}{500} \times 10^5 + \frac{1}{200} \times x^2 = 488$

$\frac{1}{200} \times x^2 = 488 - 200 = 288$

$x^2 = 288 \times 200 = 57600 = 240^2$

? = 240

Hence, option D is correct.

5.

$12\frac{1}{3}$ of 321 – ? = 18.5 × 14

$\frac{37}{3}$ of 321 – ? = 37 × 7

? = 37 × 107 – 37 × 7 = 37 × 100

? = 3700

Hence, option B is correct.

6.

$\Rightarrow 3\frac{12}{67} \times 59\frac{32}{71} \times 16\frac{2}{7} + 3\frac{1}{2} = ?$

$\Rightarrow \frac{213}{67} \times \frac{4221}{71} \times \frac{114}{7} + \frac{7}{2} = ?$

⇒ 3078 + 3.5 =?

⇒ ? = 3081.5

Hence, option D is correct.

7. $\sqrt{37249} \times \sqrt{2809} - (87)^2 = (?)^2 + (48)^2 - 5$

$\Rightarrow 193 \times 53 - 7569 = (?)^2 + 2304 - 5$

$\Rightarrow 10229 - 7569 = (?)^2 + 2299$

$\Rightarrow 2660 = (?)^2 + 2299$

$\Rightarrow (?)^2 = 2660 - 2299$

$\Rightarrow (?)^2 = 361$

$\Rightarrow ? = 19$

Hence, option E is correct.

8. $\Rightarrow (6963 \div 33) + (745 \div 35) + (9580 \div 45) = ?$

$\Rightarrow 211 + 21.3 + 212.9 = ?$

$\Rightarrow ? = 445.2$

Hence, option D is correct.

9. $\Rightarrow [(9\sqrt{5} + 4\sqrt{5}) \times (11\sqrt{5} + 19\sqrt{5})] - (43)^2 = ?$
$\Rightarrow [13\sqrt{5} \times 30\sqrt{5}] - 1849 = ?$
$\Rightarrow 13 \times 30 \times 5 - 1849 = ?$
$\Rightarrow ? = 1950 - 1849$
$\Rightarrow ? = 101$
Hence, option D is correct.

10.

$14\frac{2}{3} \times \sqrt{729} - 23\% \text{ of } 1750 = ?^{1/2} - 23.5$

$\frac{44}{3} \times 27 - 1750 \times \frac{23}{100} = ?^{1/2} - 23.5$

$44 \times 9 - 402.5 + 23.5 = ?^{1/2}$
$?^{1/2} = 396 - 379$
$?^{1/2} = 17$
$? = 289$
Hence, option B is correct.

11.

$5\frac{11}{13} \times ?\frac{7}{12} \times 2\frac{13}{19} + 18\% \text{ of } 552 = 218.36$

$\frac{76}{13} \times \frac{51}{19} \times ?\frac{7}{12} + 99.36 = 218.36$

$\frac{76}{13} \times \frac{51}{19} \times \left(?\frac{7}{12}\right) = 119$

$\frac{4 \times 3}{13} \times \left(?\frac{7}{12}\right) = 7$

$\left(?\frac{7}{12}\right) = \frac{91}{12} = 7\frac{7}{12}$

? = 7

Hence, option A is correct.

12. $8^{4.2} \times 8^{6.4} \times 8^{6.4} \times 8^{2.25} \times 11^{2.25} \times 11^{?} = 8^{19.25} \times 11^{19.25}$

$8^{19.25} \times 11^{2.25} \times 11^{?} = 8^{19.25} \times 11^{19.25}$

$11^{?} = 11^{17}$

? = 17

Hence, option E is correct.

13.

$\frac{1}{2}$ of 52846 + 35% of ? – 85% of 42320 = 2547

26423 + 35% of ? – 35972 = 2547

35% of ? = 2547 + 35792 – 26423 = 12096

$? = 12096 \times \frac{100}{35} = 34560$

Hence, option A is correct.

14.

$$\frac{(4^3 \times 14 + 4060)}{12} = 7021 \div ?$$

$$\frac{(896 + 4060)}{12} = 413 = \frac{7021}{?}$$

$$? = \frac{7021}{413} = 17$$

Hence, option D is correct.

15.

$$\left(4\frac{3}{4} \times 10\frac{2}{3} \times 4\frac{3}{8}\right) \div ?\frac{17}{27} = 9$$

$$\left(\frac{19}{4} \times \frac{32}{3} \times \frac{35}{8}\right) \div ?\frac{17}{27} = 9$$

$$\frac{19 \times 35}{3 \times 9} = \frac{665}{27} = 24\frac{17}{27} = ?\frac{17}{27}$$

$? = 24$

Hence, option C is correct.

16. (15% of 52)% of 450 + 42 ÷ 3 ×12

7.8% of 450 + 14 × 12

35.1 + 168 = 203

Hence, option C is correct.

17. $4^3 + 12^3 + ? = 502 \times 4$

64 + 1728 + ? = 2008

? = 2008 – 1792 = 216

? = 216

Hence, option B is correct.

18.

$\frac{19}{4} \times \frac{96}{17} \times \frac{51}{2} = 19 \times 12 \times 3 = 684$

Hence, option C is correct.

19.

$\frac{63}{5} \times \frac{45}{7} \times (?\% \text{ of } 125) = 81 \times 25$

$81 \times (?\% \text{ of } 125) = 81 \times 25$

$? = 20$

Hence, option E is correct.

20. $1523 + 33\% \text{ of } ? = 199 + 2809 = 3008$

$33\% \text{ of } ? = 3008 - 1523 = 1485$

$? = \frac{1485 \times 100}{33} = 4500$

Hence, option B is correct.

21. $38\% \text{ of } 430 + 54\% \text{ of } 890 = ?$

$163.40 + 480.60 = ?$

$? = 644$

Hence, option C is correct.

22.

$\frac{645}{5} + \frac{22}{3} \times 33 - \frac{15}{4} \times ? = -109$

$129 + 242 + 109 = \frac{15}{4} \times ?$

$\Rightarrow 480 = \frac{15}{4} \times ?$

$? = 128$

Hence, option E is correct.

23. $126.543 + 12.3421 + 28.4528 + 19.1919 = 186.5298$

Hence, option A is correct.

24.

$$\left(\frac{1}{2^3} + 12.5 \times \frac{624}{100}\right) \times 4 = \left(\frac{1}{8} + \frac{624}{8}\right) \times 4 = \frac{625}{2} = 312.5$$

Hence, option B is correct.

25.

$$\frac{1665}{37} \times \frac{22}{3} + 100 = 45 \times \frac{22}{3} + 100 = 15 \times 22 + 100$$

$= 330 + 100 = 430$

Hence, option D is correct.

26. ? = 52% of 328 + 48% of 468

$$? = 52 \times \frac{328}{100} + 48 \times \frac{468}{100}$$

? = 170.56 + 224.64 = 395.2

Hence, option A is correct.

Alternate Solution:-

? = 52% of 328 + 48% of 468

? = 50% of 328 + 2% of 328 + 50% of 468 - 2% of 468

? = 50% of (328 + 468) - 2% of (468 - 328)

? = 398 - 2.8

? = 395.2

Hence, option A is correct.

27.

$(3^3 + 6.25\% \text{ of } ?) \frac{1}{4^{-2}} = 8^2 \times 3^2$

$\left(27 + \frac{6.25}{100} \times ?\right) 4^2 = 64 \times 9$

$\left(27 + \frac{?}{16}\right) = 9 \times 4$

$27 \times 16 + ? = 16 \times 36$

$X = 16 \times 36 - 27 \times 16 = 144$

Hence, option C is correct.

28.

$3\frac{2}{5} \text{ of } 580 + 7\frac{1}{7} \text{ of } 147 + 3\frac{1}{3} \text{ of } 603 = ?$

$\frac{17}{5} \times 580 + \frac{50}{7} \times 147 + \frac{10}{3} \times 603 = ?$

$? = 17 \times 116 + 50 \times 21 + 10 + \times 201$

$= 1972 + 1050 + 2010 = 5032$

Hence, option A is correct.

29. $248.44 + 54.86 + 120.22 - 43.28 - 12.24 = ?$

$? = 423.52 - 55.52 = 368 = 25 \times \frac{?}{100}$

$? = 368 \times 4 = 1472$

Hence, option E is correct.

30.

$$\frac{6.25\% \text{ of } 4096}{2^2 + 2^2} + 1\frac{1}{8} \text{ of } 3^2 = 10\% \text{ of } 100 \times ?$$

$$\frac{\left(\frac{6.25}{100} \times 4096\right)}{8} + \frac{9}{8} \times 9 = 10 \times ?$$

$$\frac{\left(\frac{4096}{16}\right)}{8} + \frac{81}{8} = 10 \times ?$$

$$\frac{256}{8} + \frac{81}{8} = 10 \times ? = \frac{337}{8} = 10 \times ?$$

$$? = \frac{42.125}{10} = 4.2125$$

Hence, option B is correct.

31.

$$3\frac{6}{7} \div 33.33\% \text{ of } 162 \times 2\frac{1}{2} = ?$$

$$? = \frac{27}{7} \div \frac{1}{3} \text{ of } 162 \times \frac{5}{2}$$

$$? = \frac{27}{7} \times \frac{1}{54} \times \frac{5}{2} = \frac{5}{28}$$

Hence, option E is correct.

32. 49% of 520 + 51% of 480 = ?

$$? = 49 \times \frac{520}{100} + 51 \times \frac{480}{100}$$

? = 254.8 + 244.8 = 499.6

Hence, option A is correct.

Alternate Solution:-
49% of 520 + 51% of 480 = ?
? = 50% of 520 – 1% of 520 + 50% of 480 + 1% of 480
? = 50% of (520 + 480) – 1% of (520 – 480)
? = 500 – 0.4 = 499.6
Hence option A is correct

33. $3.4 \times 1.8 \div 1.53 + 13.4 = ?$

$? = 3.4 \times \frac{1.8}{1.53} + 13.4$

$? = \frac{34 \times 18}{153} + 134$

$? = 4 + 13.4 = 17.4$

Hence, option C is correct.

34.

$17\frac{5}{9}$ of $171 - 4\frac{3}{4}$ of $64 = ?$

$? = \frac{158}{9} \times 171 - \frac{19}{4} \times 64$

$? = 158 \times 19 - 19 \times 16$

$? = 19\,(158 - 16)$

$? = 142 \times 19 = 2698$

Hence, option B is correct.

35. $? = 52.24 + 62.18 + 84.48 + 12.21$

$? = 211.11$

Hence, option C is correct.

36. $(1.6)^2 \div (0.8)^2 = [(2.4)^2 \div (0.4)^2] - ?$

$= \frac{1.6 \times 1.6}{0.8 \times 0.8} = \frac{2.4 \times 2.4}{0.4 \times 0.4} - ?$

Or, $4 = 36 - ?$

or, $? = 36 - 4 = 32$

Hence, option B is correct.

37. $8\sqrt{8} \times 8^3 \div 8^{-5/2} = 2^?$

or, $8 \times 8^{1/2} \times 8^3 \div 8^{-5/2} = 2^?$

or, $8^{1+1/2+3+5/2} = 2^?$

or, $2^{3(1+1/2+3+5/2)} = 2^?$

As the bases are equal, we can compare indices,

$\therefore ? = 3\left(1 + \frac{1}{2} + 3 + \frac{5}{2}\right) = \frac{3(2+1+6+5)}{2} = \frac{3(14)}{2}$

or, $? = 3 \times 7 = 21$

Hence, option D is correct.

38. $(0.6)^2 \times 5 = ? - 348 \div 24$

or, $0.36 \times 5 = ? - 14.5$

or, $? = 14.5 + 1.8 = 16.3$

Hence, option A is correct.

39. ?% of $(584.4 - 244.2) = (9)^2 + 21$

Or, $\frac{? \times 340}{100} = 81 + 21 = 102$

$\therefore ? = \frac{102 \times 100}{340} = 30$

Hence, option C is correct.

40. $\sqrt{2^?} = (8^2 \times 5^2) \div (200\sqrt{2})$

$= \frac{64 \times 25}{(200\sqrt{2})} = \frac{8}{\sqrt{2}} = \frac{8}{\sqrt{2}} \times \frac{\sqrt{2}}{\sqrt{2}} = 4\sqrt{2}$

$\sqrt{2^?} = \sqrt{2^5}$

$\therefore ? = 5$

Hence, option C is correct.

41. $86 - (86)^2 + 86 \times (86 + 86 \div 0.86) = ?$

$? = 86 - (86)^2 + 86 \times (86 + 100)$

$? = 86 - (86)^2 + 86 \times 186$

$? = 86\,(1 - 86 + 186)$

$? = 86\,(101)$

$? = 8686$

Hence, option C is correct.

42. $? = [(7)^{2.7} \times (343)^{1.5}]^{1/3}$

$? = (7)^{2.7\times(1/3)} \times (7)^{3\times1.5\times(1/3)}$

$? = (7)^{2.7\times(1/3)} \times (7)^{3\times1.5\times(1/3)}$

$? = 7^{0.9} \times 7^{1.5} = 7^{2.4}$

Hence, option B is correct.

43.

$$\frac{262144}{4096} \times \frac{32768}{512} + ? = 5020.8$$

$$\therefore \frac{8^6}{8^4} \times \frac{8^5}{8^3} + ? = 5020.8$$

$\therefore\ 8^4 + ? = 5020.8$

$\therefore\ \mathbf{?} = 5020.8 - 4096 = 924.8$

Hence, option A is correct.

44. $(49)^{16} \div (343)^8 \times (2401)^3 \times 49 = 7^?$

$\therefore\ (7^2)^{16} \div (7^3)^8 \times (7^4)^3 \times 7^2 = 7^?$

$\therefore\ 7^{32} \div 7^{24} \times 7^{12} \times 7^2 = 7^?$

$\therefore\ 7^{32-24+12+2} = 7^?$

$\therefore\ 7^{22} = 7^?$

$\therefore\ \mathbf{?} = 22$

Hence, option C is correct.

45. $6482.1 \times 0.02 + 2281.7 - ? = 882.321 + 1439.31$

$\therefore$ $129.642 + 2281.7 - ? = 2321.631$

$\therefore$ $2411.342 - ? = 2321.631$

$\therefore$ **?** $= 89.711$

Hence, option C is correct.

46. 33.33% of 180 + 66.67% of 321 =? of 548

$\Rightarrow \frac{1}{3}$ of $180 + \frac{2}{3}$ of $321 = ?$ of 548

$\Rightarrow$ $60 + 214 = ? \times 548$

$\Rightarrow$ $274 = ? \times 548$

$\Rightarrow ? = \frac{274}{548} = \frac{1}{2}$

Hence, option B is correct.

47. $(0.6)^3 \times 600 \div 6000$ of $(0.6)^2 = ?$

Applying the BODMAS, we get

$? = (0.6)^3 \times 600 \div (6000 \times 0.6 \times 0.6)$

$? = \frac{0.6 \times 0.6 \times 0.6 \times 600}{6000 \times 0.6 \times 0.6}$

$? = \frac{6}{100} = \frac{3}{50} = \frac{3}{50}$

Hence, option B is correct.

48. 11.11% of 27.27% of 8.33% of 3564 =?

$? = \frac{1}{9} \times \frac{3}{11} \times \frac{1}{12} \times 3564 = 9$

Hence, option C is correct.

49. $11449 \times 6241 - (54)^2 = ? + (74)^2$

$\Rightarrow 107 \times 79 - 2916 = ? + 5476$

$\Rightarrow 8453 - 2916 - 5476 = ?$

$\Rightarrow 61 = ?$

$\Rightarrow ? = 61^2 = 3721$

Hence, option B is correct.

50. $\left(3\sqrt{8} + \sqrt{8}\right) \times \left(8\sqrt{8} + 7\sqrt{8}\right) - 98 = ?$

$\Rightarrow \left[\sqrt{8} \times 4 \times \sqrt{8} \times 15\right] - 98$

$\Rightarrow [8 \times 4 \times 15] - 98$

$\Rightarrow 480 - 98 = 382$

Hence, option C is correct.