



Bipin Nambiar
(SBI PO 2018)



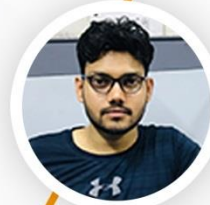
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Simplification Questions for IBPS Clerk Pre, IBPS RRB Office Asst. Pre and EPFO Asst. Pre Exams.

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

1. $5004 \div 139 - 6 = ?$

- A. 24 B. 30 C. 36 D. 42 E. None of these

2. $2 - [2 - \{2 - 2(2 + 2)\}] = ?$

- A. -4 B. 4 C. 6 D. -6 E. None of these

3. $3640 \div 14 \times 16 + 340 = ?$

- A. 0.70 B. 3525 C. 4480 D. 9600 E. None of these

4. $100 \times 10 - 100 + 2000 \div 100 = ?$

- A. 29 B. 780 C. 920 D. 979 E. None of these

5. $\frac{4 + 4 \times 18 - 6 - 8}{123 \times 6 - 146 \times 5} = ?$

- A. 1 B. 2 C. 6.65 D. 7.75 E. None of these

6. $\frac{180 \times 15 - 12 \times 20}{140 \times 8 + 2 \times 55} = ?$

- A. $\frac{1}{7}$ B. $\frac{4}{5}$ C. 2 D. 4 E. None of these

7. $5\frac{5}{6} - 3\frac{8}{9} - ? = 1$

- A. $\frac{2}{3}$ B. $\frac{3}{2}$ C. $\frac{17}{18}$ D. 3 E. None of these

8. $6\frac{5}{6} \times 5\frac{1}{3} + 17\frac{2}{3} \times 4\frac{1}{2} = ?$

- A. $112\frac{1}{3}$ B. $116\frac{2}{3}$ C. 240 D. 663 E. None of these

9. $\frac{3}{8}$ of $168 \times 15 \div 5 + ? = 549 \div 9 + 235$

- A. 107 B. 170 C. 296 D. 275 E. None of these

10. $5\frac{2}{3} \div ? \times \frac{5}{6} = 2$

- A. 2 B. 3 C. 4 D. 5 E. None of these

11. $\frac{4}{9} \times 1701 + \frac{2}{11} \times 1386 = ?$

- A. 180 B. 1080 C. 1008 D. 1800 E. None of these

12. $9\frac{3}{7} + 6\frac{4}{7} - ? = 14\frac{4}{7}$

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

13. $\frac{4}{5} \times ? \times \frac{3}{7} = \frac{16}{105}$

- A. $\frac{8}{9}$ B. $\frac{5}{7}$ C. $\frac{4}{9}$ D. $\frac{3}{7}$ E. None of these

14. $5^2 + 13^2 - 11^2 = (?)^3 - 52$

- A. 6 B. 3 C. 4 D. 5 E. None of these

15. $98643 - 21748 = 51212 + ?$

- A. 24383 B. 24713 C. 25683 D. 25973 E. None of these

16. $94736 + 43693 + 25638 = ?$

- A. 160546 B. 164076 C. 165046 D. 160467 E. None of these

17. $-948 + 147 - ? = -1432$

- A. 683 B. 631 C. 647 D. 676 E. None of these

18. $(?)^3 \times (5^5) \div 225 = 3000$

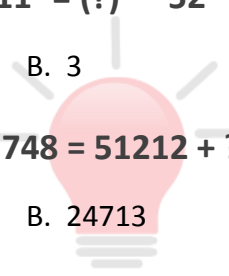
- A. 6 B. 8 C. 5 D. 9 E. None of these

19. $(? - 968) \div 79 \times 4 = 512$

- A. 11080 B. 10190 C. 11075 D. 10185 E. None of these

20. $\frac{4}{3} \times \frac{2}{3} \times ? = 1008$

- A. 2688 B. 2604 C. 2667 D. 5 E. None of these



21. $(764 \times ?) \div 250 = 382$

- A. 115 B. 145 C. 135 D. 125 E. None of these

22. $\frac{1}{4} \times (4856 \times 0.5) \times 12 = ?$

- A. 7284 B. 7462 C. 7262 D. 7414 E. None of these

23. $853 + ? \div 17 = 1000$

- A. 2516 B. 2482 C. 2499 D. 16147 E. None of these

24. $9643 - 7750 + ? = 4990$

- A. 3079 B. 3097 C. 3090 D. 4010 E. None of these

25. $6156 \div \sqrt{?} \times 53 = 4028$

- A. 6889 B. 6241 C. 5929 D. 6561 E. None of these

26. $18\frac{2}{3} + 7\frac{1}{2} = ?$

- A. $26\frac{1}{3}$ B. $19\frac{1}{2}$ C. $26\frac{1}{6}$ D. $25\frac{2}{3}$ E. None of these

27. $(38)^2 + (63)^2 + (?)^2 = 6089$

- A. 26 B. 24 C. 28 D. 32 E. None of these

28. $-224 + (-314) \times (-9) = ?$

- A. -547 B. 2602 C. +547 D. -2602 E. None of these

29. $8.7 + 6.2 \times 7.5 = ?$

- A. 55.04 B. 55.02 C. 66.48 D. 104.02 E. None of these

30. $64344 + 5239 + 4423 + 123 = ?$

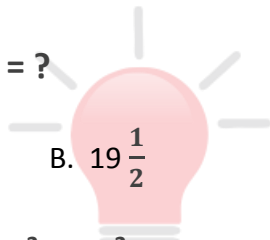
- A. 74126 B. 74223 C. 74129 D. 75624 E. None of these

31. $[(3)^3 \times (5)^4] \div (3)^5 = ?$

- A. 30.44 B. 39.55 C. 35.44 D. 69.44 E. None of these

32. $(608.40 \times ?) \div 225 + 37 = 375$

- A. 115 B. 135 C. 130 D. 125 E. 132



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33. $12.25 \times 7.2 + 84.33 = ?$

- A. 182.51 B. 177.44 C. 174.33 D. 172.53 E. None of these

34. $\sqrt{?} + 416 = (60\% \text{ of } 920) - 110$

- A. 576 B. 676 C. 784 D. 1024 E. 1156

35. $(14896 \div 19) \div 16 = ?$

- A. 49 B. 54 C. 58 D. 62 E. 67

36. $[(4)^3 \times (5)^4] \div (4)^5 = ?$

- A. 30.0925 B. 39.0625 C. 35.6015 D. 29.0825 E. None of these

37. $8195 \div 745 + ? \times 12 = 7847$

- A. 648 B. 593 C. 601 D. 653 E. None of these

38. $7\frac{2}{7} \text{ of } 189 + 452 = 2000 - ?$

- A. 183 B. 164 C. 170 D. 198 E. None of these

39. $(45)^2 + (21)^2 = (?)^2 + 257$

- A. 51 B. 49 C. 45 D. 47 E. None of these

40. $65\% \text{ of } 400 + \sqrt{?} = 44\% \text{ of } 800 - 12\% \text{ of } 400$

- A. 1936 B. 44 C. 2115 D. 46 E. None of these

41. $\frac{7}{5} \text{ of } 58 + \frac{3}{8} \text{ of } 139.2 = ?$

- A. 133.4 B. 137.2 C. 127.8 D. 131.6 E. None of these

42. $12\% \text{ of } 555 + 15\% \text{ of } 666 = ?$

- A. 166.5 B. 167.5 C. 168.5 D. 169.5 E. None of these

43. $84368 + 65466 - 72009 - 13964 = ?$

- A. 61481 B. 62921 C. 63861 D. 64241 E. None of these

44. $337.8 \times 331.2 \div 335 = 33 \times 33?$

- A. 2.8 B. 3 C. 3.2 D. 4 E. 6

45. $\frac{?}{529} = \frac{324}{?}$

- A. 404 B. 408 C. 410 D. 414 E. 416

46. $8965 + 3974 + 8652 + 185 = ?$

- A. 21766 B. 21776 C. 20776 D. 19776 E. None of these

47. $\frac{2}{3}$ of 117 $- \frac{3}{5}$ of 65 = ?

- A. 40 B. 58 C. 52 D. 39 E. None of these

48. $\frac{5}{12} + \frac{11}{32} \div \frac{73}{48} = ?$

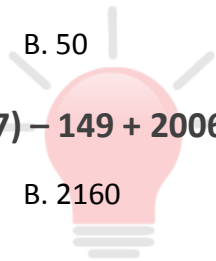
- A. $\frac{3}{7}$ B. $\frac{3}{4}$ C. $\frac{1}{4}$ D. $\frac{1}{3}$ E. None of these

49. 38% of 7500 + $?\%$ of 375 = 50% of 6000

- A. 40 B. 50 C. 60 D. 70 E. None of these

50. $29(119 \div 17) - 149 + 2006 = ?$

- A. 2070 B. 2160 C. 2060 D. 1006 E. None of these



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Correct answers:

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



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Explanations:

1.

$$\text{Given expression} = \frac{5004}{139} - 6$$

$$= 36 - 6 = 30.$$

Hence, option B is correct.

2.

$$\text{Given expression} = 2 - [2 - \{2 - 2 \times 4\}]$$

$$\Rightarrow 2 - [2 - \{2 - 8\}] \Rightarrow 2 - [2 - (-6)]$$

$$\Rightarrow 2 - [2 + 6] \Rightarrow 2 - 8$$

$$\Rightarrow -6.$$

Hence, option D is correct.

3.

$$\text{Given expression} : 3640 \div 14 \times 16 + 340 = ?$$

$$260 \times 16 + 340 \Rightarrow 4160 + 340 \Rightarrow 4500.$$

Hence, option E is correct.

4.

$$\text{Given expression} = 100 \times 10 - 100 + 20$$

$$\Rightarrow 1000 - 100 + 20$$

$$\Rightarrow 1020 - 100 \Rightarrow 920.$$

Hence, option C is correct.

5.

By the applying BODMAS rule, we get

$$\text{Given expression} = \frac{4 + 72 - 6 - 8}{738 - 730} \Rightarrow \frac{76 - 14}{8}$$

$$\Rightarrow \frac{62}{8} \Rightarrow 7.75.$$

Hence, option D is correct.

6. By the applying BODMAS rule, we get

$$\text{Given expression} = \frac{2700 - 240}{1120 + 110} \Rightarrow \frac{2460}{1230} \Rightarrow 2.$$

Hence, option C is correct.

7.

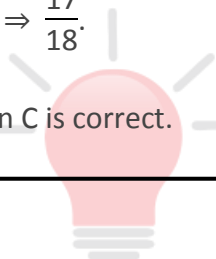
$$\text{Let } \frac{35}{6} - \frac{35}{9} - x = 1.$$

$$\text{Then, } x = \frac{35}{6} - \frac{35}{9} - 1$$

$$x = \frac{35}{6} - \left(\frac{35}{9} + 1\right) \Rightarrow \frac{35}{6} - \frac{44}{9}$$

$$\Rightarrow \frac{105 - 88}{18} \Rightarrow \frac{17}{18}.$$

Hence, option C is correct.



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8.

$$\text{Given expression} = \left(\frac{41}{6} \times \frac{16}{3} + \frac{53}{3} \times \frac{9}{2}\right) = \left(\frac{328}{9} + \frac{159}{2}\right)$$

$$\Rightarrow \frac{656 + 1431}{18} = \frac{2087}{18}.$$

$$\Rightarrow 115\frac{17}{18}.$$

Hence, option E is correct.

9.

$$\text{Let } \frac{3}{8} \text{ of } 168 \times 15 \div 5 + A = 549 \div 9 + 235$$

$$\text{Then, } 63 \times 15 \div 5 + A = 549 \div 9 + 235$$

$$\Rightarrow 63 \times 3 + A = 61 + 235$$

$$\Rightarrow 189 + A = 296, \quad A = 107.$$

Hence, option A is correct.

10.

$$\text{Let } 5\frac{2}{3} \div y\frac{5}{6} = 2.$$

$$\text{Then, } \frac{17}{3} \div y\frac{5}{6} = 2. \Rightarrow \frac{5}{6}y = \frac{17}{3} \times \frac{1}{2} = \frac{17}{6}$$

$$\Rightarrow \frac{5}{6}y = 2\frac{5}{6}$$

Therefore, $y = 2$.

Hence, option A is correct.

11.

$$? = \frac{4}{9} \times 1701 + \frac{2}{11} \times 1386$$

$$? = (4 \times 189) + (2 \times 126)$$

$$? = 756 + 252 = 1008.$$

Hence, option C is correct.



12.

$$? = 9\frac{3}{7} + 6\frac{4}{7} - 14 - \frac{4}{7}$$

$$\Rightarrow ? = 9 + \frac{3}{7} + 6 + \frac{4}{7} - 14 - \frac{4}{7}$$

On solving the whole number part separately, we get

$$\Rightarrow ? = 1 + \frac{3}{7} + \frac{4}{7} - \frac{4}{7}$$

$$\Rightarrow ? = 1 + \frac{3}{7} = 1\frac{3}{7}$$

Hence, option D is correct.

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13. Let's the number (?) be x, then

From the given equation,

$$\frac{4}{5} \times x \times \frac{3}{7} = \frac{16}{105}$$

$$\frac{12x}{35} = \frac{16}{105} \Rightarrow x = \frac{16 \times 35}{105 \times 12} \Rightarrow x = \frac{4}{9}$$

Hence, option C is correct.

14. From the given equation

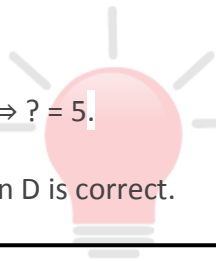
$$\Rightarrow 25 + 169 - 121 = ?^3 - 52$$

$$\Rightarrow 25 + 48 + 52 = ?^3$$

$$\Rightarrow ?^3 = 125$$

$$\Rightarrow ?^3 = (5)^3 \Rightarrow ? = 5.$$

Hence, option D is correct.



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15. Given eqn.

$$98643 - 21748 = 51212 + ?$$

$$\Rightarrow ? = 98643 - 21748 - 51212$$

$$\Rightarrow ? = 25683$$

Hence, option C is correct.

16. $94736 + 43693 + 25638 = 164067$

Hence, option E is correct.

17. $-948 + 147 - ? = -1432$

$$-801 - ? = -1432$$

$$? = 631$$

Hence, option B is correct.

18. $(?)^3 \times (5^5) \div 225 = 3000$

$$(?)^3 \times (5^5) = 3000 \times 225 = 675000$$

$$(?)^3 = 675000 \div (5^5) = 216$$

$$? = 6$$

Hence, option A is correct.

19.

$$\frac{(? - 968)}{79} \times 4 = 512$$

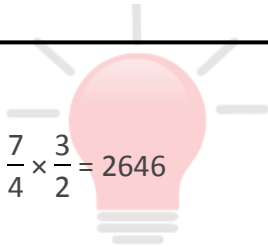
$$\Rightarrow ? = \frac{512 \times 79}{4} + 968 = 11080$$

Hence, option A is correct.

20.

$$? = 1008 \times \frac{7}{4} \times \frac{3}{2} = 2646$$

Hence, option D is correct.



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21.

$$\frac{764 \times ?}{250} = 382$$

$$? = \frac{382 \times 250}{764} = 125$$

Hence, option D is correct.

22.

$$\frac{1}{4} \times (4856 \times 0.5) \times 12 = 7284$$

Hence, option A is correct.

23.

$$853 + \frac{?}{17} = 1000$$

$$\frac{?}{17} = 1000 - 853 = 147$$

$$? = 17 \times 147 = 2499$$

Hence, option C is correct.

24. $? = 4990 - 9643 + 7750 = 3097$

Hence, option B is correct.

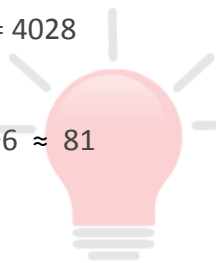
25.

$$\frac{6153 \times 53}{\sqrt{?}} = 4028$$

$$\Rightarrow \sqrt{?} = 80.96 \approx 81$$

$$\Rightarrow ? = 6561$$

Hence, option D is correct.



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26.

$$\frac{56}{3} + \frac{15}{2} = \frac{112 + 45}{6} = \frac{157}{6} = 26\frac{1}{6}$$

Hence, option C is correct.

27. $?^2 = 6089 - 1444 - 3969 = 676$

$$? = 26$$

Hence, option A is correct.

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28. $(?)^3 \times (5^5) \div 225 = 3000$

$$(?)^3 \times (5^5) = 3000 \times 225 = 675000$$

$$(?)^3 = 675000 \div (5^5) = 216$$

$$? = 6$$

Hence, option A is correct.

29.

$$\frac{(? - 968)}{79} \times 4 = 512$$

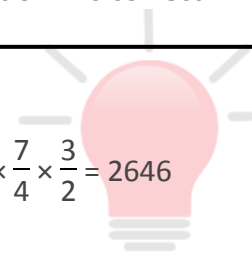
$$\Rightarrow ? = \frac{512 \times 79}{4} + 968 = 11080$$

Hence, option A is correct.

30.

$$? = 1008 \times \frac{7}{4} \times \frac{3}{2} = 2646$$

Hence, option D is correct.



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31. $[(3)^3 \times (5)^4] \div (3)^5 = ?$

$$? = \frac{3^3 \times 5^4}{3^5} = \frac{5^4}{3^2} = \frac{625}{9} = 69.44$$

Hence, option D is correct.

32.

$$\frac{608.40 \times ?}{225} + 37 = 375$$

$$\Rightarrow 608.40 \times ? = (375 - 37) \times 225 = 76050 \Rightarrow ? = 125$$

Hence, option D is correct.

33. $12.25 \times 7.2 + 84.33 = 88.2 + 84.33 = 172.53$

Hence, option D is correct.

34. $\sqrt{?} + 416 = (60\% \text{ of } 920) - 110$

$$\Rightarrow \sqrt{?} = (50\% \text{ of } 920 + 10\% \text{ of } 920) - 110 - 416$$

$$\Rightarrow \sqrt{?} = (460 + 92) - 526$$

$$\Rightarrow \sqrt{?} = 552 - 526 = 26$$

$$\Rightarrow ? = 26^2 = 676$$

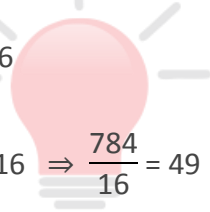
Hence, option B is correct.

35. $(14896 \div 19) \div 16 = ?$

$$\Rightarrow ? = \frac{14896}{19} \div 16$$

$$\Rightarrow ? = \frac{14896}{19} \div 16 \Rightarrow \frac{784}{16} = 49$$

Hence, option A is correct.



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36. $[(4)^3 \times (5)^4] \div (4)^5 = ?$

$$? = \frac{4^3 \times 5^4}{4^5} = \frac{5^4}{4^2} = \frac{625}{16} = 39.0625$$

Hence, option B is correct.

37. $8195 \div 745 + ? \times 12 = 7847$

$$\text{or, } ? \times 12 = 7847 - \frac{8195}{745} = 7847 - 11$$

$$\text{or, } ? \times 12 = 7836$$

$$\therefore ? = 653.$$

Hence, option D is correct.

38.

$$7\frac{2}{7} \text{ of } 189 + 452 = 2000 - ?$$

$$= \frac{51}{7} \text{ of } 189 + 452 = 2000 - ?$$

$$\text{or, } ? = 2000 - (1377 + 452)$$

$$\therefore ? = 2000 - 1829 = 171.$$

Hence, option E is correct.

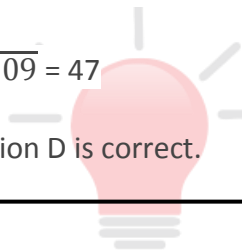
39. $(45)^2 + (21)^2 = (?)^2 + 257$

$$\text{or, } (?)^2 = (45)^2 + (21)^2 - 257$$

$$\text{or, } (?)^2 = 2025 + 441 - 257 = 2209.$$

$$\text{or, } ? = \sqrt{2209} = 47$$

Hence, option D is correct.



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40. $65\% \text{ of } 400 + \sqrt{?} = 44\% \text{ of } 800 - 12\% \text{ of } 400$

$$\Rightarrow (50\% \text{ of } 400 + 10\% \text{ of } 400 + 5\% \text{ of } 400) + \sqrt{?} = (50\% \text{ of } 800 - 6\% \text{ of } 800) - 12\% \text{ of } 400$$

$$\Rightarrow (200 + 40 + 20) + \sqrt{?} = (400 - 48) - 48$$

$$\text{or, } \sqrt{?} = 352 - 48 - 260 = 44$$

$$\therefore ? = (44)^2 = 1936.$$

Hence, option A is correct.

41.

$$? = \frac{7}{5} \text{ of } 58 + \frac{3}{8} \text{ of } 139.2 = 81.2 + 52.2 = 133.4$$

Hence, option A is correct.

42. Method I :

$$? = 12\% \text{ of } 555 + 15\% \text{ of } 666$$

$$= \frac{12}{100} \times 555 + \frac{15}{100} \times 666$$

$$= 12 \times 5.55 + 15 \times 6.66$$

$$= 66.6 + 99.9 = 166.5$$

Method II :

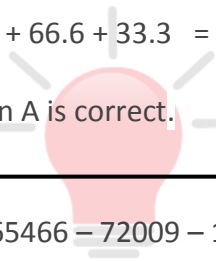
$$? = 12\% \text{ of } 555 + 15\% \text{ of } 666$$

$$= (10 + 2)\% \text{ of } 555 + (10 + 5)\% \text{ of } 666$$

$$= 10\% \text{ of } 555 + 2\% \text{ of } 555 + 10\% \text{ of } 666 + 5\% \text{ of } 666$$

$$= 55.5 + 11.1 + 66.6 + 33.3 = 166.5$$

Hence, option A is correct.



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43. $? = 84368 + 65466 - 72009 - 13964$

$$= 149834 - 85973 = 63861$$

Hence, option C is correct.

44. $337.8 \times 331.2 \div 335 = 33 \times 33?$

$$337.8 + 1.2 - 5 = 331 + ?$$

$$334 = 331 + ?$$

$$4 = 1 + ?$$

$$? = 4 - 1 = 3$$

Hence, option B is correct.

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45.

$$\frac{?}{529} = \frac{324}{?}$$

$$?^2 = 529 \times 324$$

$$? = \sqrt{529 \times 324} = 23 \times 18 = 414$$

Note : We don't even need to multiply 23 into 18 to find the correct answer. We can observe the correct answer just by multiplying the unit digit of these two numbers, which will be 4. Therefore, option 'D' can be immediately chosen.

Hence, option D is correct.

46. $? = 8965 + 3974 + 8652 + 185$

$$= 21776$$

Hence, option B is correct.

47.

$$? = \frac{2}{3} \text{ of } 117 - \frac{3}{5} \text{ of } 65$$

$$= 2 \times 39 - 3 \times 13$$

$$= 78 - 39 = 39$$

Hence, option D is correct.

48.

$$? = \frac{5}{12} + \frac{11}{32} \div \frac{73}{48}$$

$$= \frac{5}{12} + \frac{11}{32} \times \frac{48}{73}$$

$$= \frac{5}{12} + \frac{33}{146}$$

$$= \frac{365 + 198}{876} = \frac{563}{876}$$

Hence, option E is correct.

49. $38\% \text{ of } 7500 + ?\% \text{ of } 375 = 50\% \text{ of } 6000$

$$\frac{38}{100} \times 7500 + \frac{?}{100} \times 375 = \frac{50}{100} \times 6000$$

$$2850 + ? \times 3.75 = 3000$$

$$? = \frac{3000 - 2850}{3.75} = 40$$

Hence, option A is correct.

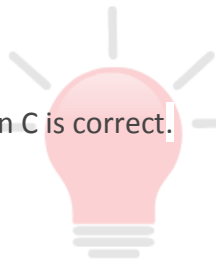
50. $? = 29(119 \div 17) - 149 + 2006$

$$= 29 \times 7 - 149 + 2006$$

$$= 203 - 149 + 2006$$

$$= 2060$$

Hence, option C is correct.



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