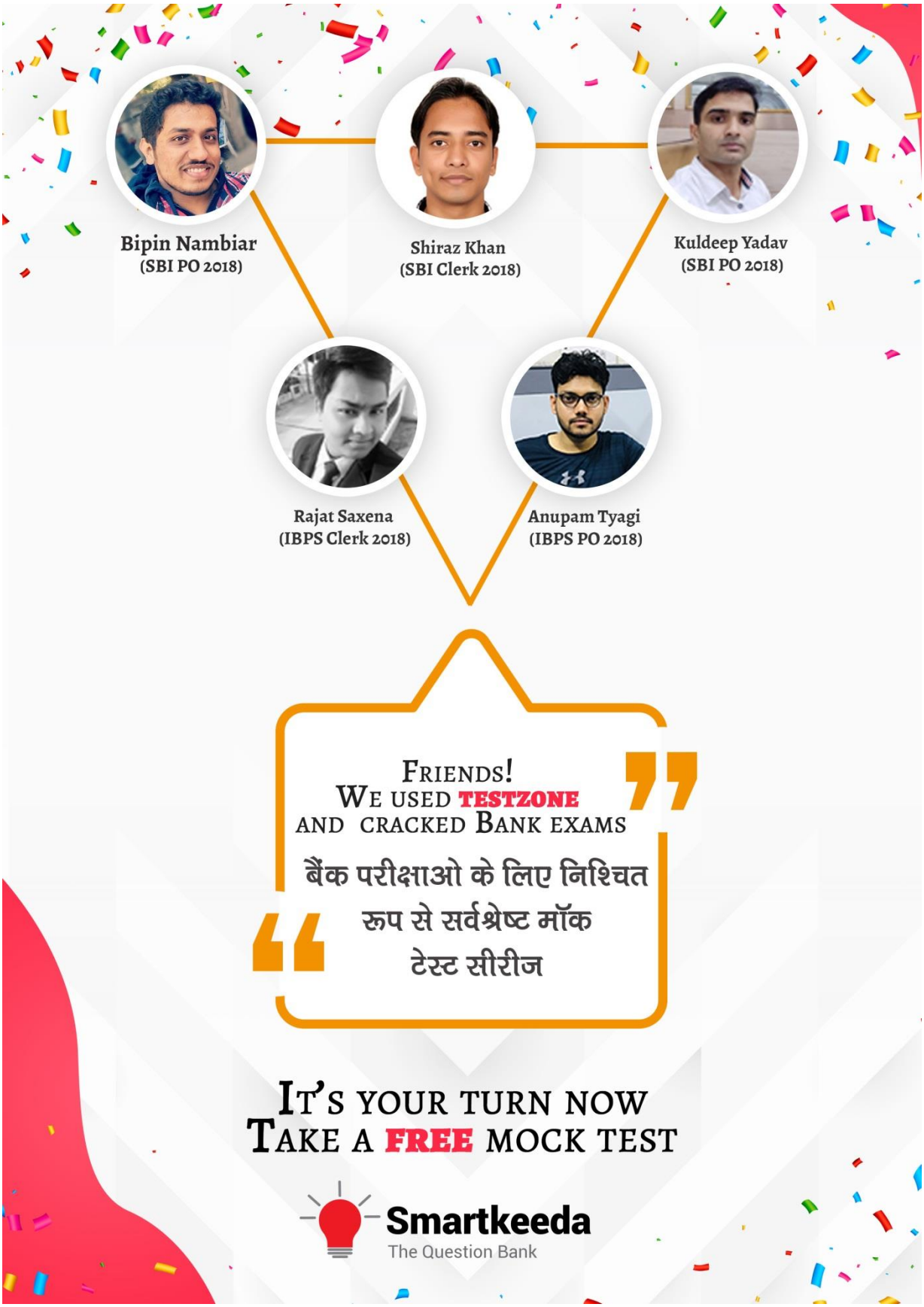
Bipin Nambiar
(SBI PO 2018)
Shiraz Khan
(SBI Clerk 2018)
Kuldeep Yadav
(SBI PO 2018)
Rajat Saxena
(IBPS Clerk 2018)
Anupam Tyagi
(IBPS PO 2018)
FRIENDS!
WE USED TESTZONE
AND CRACKED BANK EXAMS
बैंक परीक्षाओ के लिए निश्चित
रूप से सर्वश्रेष्ट मॉक
टेस्ट सीरीज
IT'S YOUR TURN NOW
TAKE A FREE MOCK TEST
Smartkeeda
The Question Bank

Simplification Questions for SBI Clerk Pre, IBPS Clerk Pre and IBPS RRB Exams.

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

1. $\frac{3}{13} \times \frac{325}{3^{-3}} \times ? = 25 \times 103 \times 1.54$

A. 125 B. 375 C. 62.5 D. 112.5 E. None of these

2. $(13456 - 712) \div 27^2 = ? \div 3 \div 3 \div 3 \div 2$

A. 472 B. 236 C. 832 D. 944 E. None of these

3. $0.16 \times 55 \times 180 + ?^2 = 12^3$

A. 484 B. ± 12 C. ± 22 D. 32 E. None of these

4. $1.25 \times 844 + 0.5 \times 432 + ? = 2500$

A. 1229 B. 1341 C. 1339 D. 1489 E. None of these

5. 75% of $12^2 + ? = 40\%$ of 600

A. 145 B. 132 C. 112 D. 158 E. None of these

6. $(\sqrt{?})^6 + (\sqrt{30})^4 = 2628$

A. 144 B. 22 C. 484 D. 12 E. None of these

7. $27^{2/3} + 216^{1/3} + ? = 125^{2/3}$

A. 120 B. – 120 C. 10 D. 110 E. None of these

8. $7\frac{2}{3}$ of $15 + 9\frac{1}{6}$ of $30 = 0.5 \times ?$

A. 710 B. 920 C. 780 D. 690 E. None of these

9. $29 \times ? = 1856 \div 4 \div 2$

A. 4.4 B. 5.4 C. 6.6 D. 9.4 E. None of these

10. $6587 - 2134 + 3125 = ? \times 5^3 \times 64 \div 2^3$

A. 75.87 B. 74.67 C. 7.467 D. 7.578 E. None of these

11. 5% of $5^2 \times 12^2 - 140 = 2 \times ?$

A. 15 B. 25 C. 20 D. 22 E. None of these

12. $2\frac{5}{13}\%$ of $5200 + 1\frac{1}{17}\%$ of $5100 = ?$

A. 17800 B. 1780 C. 178 D. 17.8 E. None of these

13. $33 \times ? \div 3 = 1.5\%$ of $(2^5 \times 5^5 \times 363)$

A. 425000 B. 405000 C. 42500 D. 40500 E. None of these

14. $?\%$ of $(15360 \div 4) = 2^{11} - 2^9$

A. 6 B. 60 C. 40 D. 80 E. None of these

15. $325 \div 13 \times \sqrt{784} = 10\%$ of $?$

A. 7000 B. 700 C. 1100 D. 900 E. None of these

16. $\sqrt[3]{(?)} \times 140 + 260 = 0.4^2 \times 5125$

A. 4 B. 8 C. 27 D. 64 E. None of these

17. $\sqrt{3136} \times 7^{-2} \div 5^{-5} \times 14 = ?$

A. 50000 B. 54280 C. 52250 D. 50125 E. None of these

18. 25% of $624 + ? = 729 - 512$

A. 61 B. 66 C. 55 D. 51 E. None of these

19. $8\frac{1}{7} \div \frac{19}{168} \times 167\frac{1}{3} = (7^2 - 1) \times ?$

A. 502 B. 604 C. 251 D. 249 E. None of these

20. $\frac{4}{7} \times \frac{9}{14} \div \frac{16}{28} + \frac{4}{3} - ? = 1$

A. $\frac{43}{42}$ B. $\frac{41}{42}$ C. $\frac{47}{42}$ D. $\frac{37}{42}$ E. None of these

21. $5 \times \sqrt{?} = 735 \div 3$

A. 7 B. 49 C. 2401 D. 98 E. None of these

22. 20% of $2^7 + 40\%$ of $64 - ? = 0$

A. 51.20 B. 56.80 C. 42.36 D. 62.24 E. None of these

23. $(4.5 \times 4.5 \times 4.5 \times 4.5) \div 225 \div 25 + 3^3 = ?$

A. 27.729 B. 277.29 C. 27.0729 D. 2772.90 E. None of these

24. $3\frac{1}{2} \times \frac{7\frac{2}{5}}{9\frac{3}{5}} \times 8^2 \times 60 = 2^4 \times ?$

A. 624 B. 2364 C. 647.5 D. 1864 E. None of these

25. $(2^3 + 7^2) \div 2 \times 3 = ?$

A. 83.5 B. 87.5 C. 92.5 D. 85.5 E. None of these

26. $17\frac{1}{3} + 21\frac{1}{2} = 33\frac{1}{3}\%$ of ?

A. 116.5 B. 104.5 C. 112.33 D. 118.33 E. None of these

27. $\frac{18 \times \frac{8}{15} + 10\% \text{ of } 624}{?} = 4$

A. 16 B. 18 C. 22 D. 24 E. None of these

28. $\sqrt{1024} \times 40 + 20^2 + 0.5\% \text{ of } 9600 + 469 = ?^3$

A. 23 B. 13 C. 17 D. 19 E. None of these

29. $4\frac{3}{5}\%$ of $6500 + 3\frac{2}{7}\%$ $3500 = ?$

A. 424 B. 414 C. 418 D. 404 E. None of these

30. $4^4 + 5^4 + 10\% \text{ of } 8000 = ?^2$

A. 1681 B. 16812 C. 41 D. 43 E. None of these

31. $13\frac{2}{3}\%$ of $3300 + 25\%$ of $184 = 40\%$ of ?

A. 1242.5 B. 1361.5 C. 1124 D. 1220 E. None of these

32. $11\frac{1}{3}$ of $117 + 13\frac{3}{5}$ of $115 = ?$

A. 2890 B. 2676 C. 1852 D. 1658 E. None of these

33. $\frac{12\% \text{ of } 273000}{13\% \text{ of } 42} + \frac{11\% \text{ of } 58500}{13\% \text{ of } 45} = ?$

A. 61100 B. 71000 C. 6700 D. 7100 E. None of these

34. $8125 \div 13 \div 2\frac{1}{2} \times 102 = ?$

A. 12500 B. 25000 C. 50000 D. 37500 E. None of these

35. $(2^{-3} + 12.5\% \text{ of } 624) \times 4^4 = 5^3 \times ?$

A. 3200 B. 32 C. 160 D. 1600 E. None of these

36. $42.32 + 423.4 + 56.28 - 122.2 = ?$

A. 18.74 B. 128.72 C. 398.2 D. 399.8 E. None of these

37. $45\% \text{ of } 480 + 1\frac{1}{8} \text{ of } 2160 + 2\frac{1}{3} \text{ of } 150 = ?$

A. 2996 B. 1448 C. 2024 D. 2848 E. None of these

38. $4\frac{1}{3} + 6\frac{1}{5} - 7\frac{1}{2} = \frac{?}{8}$

A. 28.5 B. 32.2 C. 24.26 D. 26.8 E. None of these

39. $13^2 + 5^3 - 4^4 = 10\% \text{ of } ?$

A. 420 B. 360 C. 240 D. 300 E. None of these

40. $729^2 \div 6^3 \times 27^8 = 27^{?+6} \div 216$

A. 6 B. 9 C. 15 D. 5 E. None of these

41. $(4698 - 3625 - 857) = ?^3 - 42 - \sqrt{7225}$

A. 1242.5 B. 1361.5 C. 1124 D. 1220 E. None of these

42. $\frac{?}{37} = \frac{15}{?} \times \frac{1}{2145} \times \frac{1}{9.25} \times 676 \times 143$

A. 36 B. 26 C. 69 D. 55 E. None of these

43. $\sqrt{441} \times (985.35 - 969.35) = ?^{1/2} + 305$

A. 324 B. 900 C. 1225 D. 961 E. None of these

44. $6992 \div 19 - ?\% \text{ of } 652 = -4196$

A. 700 B. 600 C. 300 D. 800 E. None of these

45. $\left[\frac{3}{2}+\frac{1}{2}\left\{\frac{3}{4}-\frac{1}{2}\left(\frac{7}{8}-\frac{3}{4}\right)\right\}\right]$ = ?

A. $\frac{59}{15}$ B. $\frac{59}{32}$ C. $\frac{59}{37}$ D. $\frac{58}{11}$ E. None of these

46. (4863 – √2601) × 1.5 = ?

A. 7200 B. 7218 C. 7250 D. 7128 E. None of these

47. 38% of 295 + 62% of 445 = ?

A. 386 B. 388 C. 380 D. 381 E. None of these

48. $1\frac{1}{7}-1\frac{1}{9}+1\frac{1}{63}$ = ?

A. $1\frac{2}{63}$ B. $1\frac{1}{21}$ C. $2\frac{1}{21}$ D. $1\frac{4}{63}$ E. None of these

49. 150% of 300 + ?% of 500 = 800

A. 60 B. 70 C. 50 D. 75 E. None of these

50. $6318 \div \sqrt[3]{17576} = \sqrt{?} \times 9$

A. 643 B. 729 C. 743 D. 629 E. None of these

Correct Answers:

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

Explanations:

1.

$\frac{3}{13} \times \frac{325}{3^{-3}} \times ? = 25 \times 10^3 \times 1.5^4$

$\frac{3}{13} \times 25 \times 13 \times 27 \times ? = 25 \times 1000 \times \frac{3^4}{2^4}$

$3^4 \times ? = 1000 \times \frac{3^4}{16}$

$? = \frac{1000}{16}$

$? = 62.5$

Hence, option C is correct.

---

2. $(13456 - 712) \div 27^2 = ? \div 3 \div 3 \div 3 \div 2$

$\frac{12744}{27 \times 27} = \frac{?}{27 \times 2}$

$? = 472 \times 2 = 944$

Hence, option D is correct.

---

3. $0.16 \times 55 \times 180 + ?^2 = 12^3$

$\frac{16}{100} \times 55 \times 180 + ?^2 = 1728$

$1584 + ?^2 = 1728$

$?^2 = 1728 - 1584 = 144 = 12^2$

$? = \pm 12$

Hence, option B is correct.

4. $1.25 \times 844 + 0.5 \times 432 + ? = 2500$

$\frac{5}{4} \times 844 + \frac{1}{2} \times 432 + ? = 2500$

$? = 2500 - (5 \times 211) - 216$

$? = 2500 - 1271 = 1229$

Hence, option A is correct.

5. 75% of $12^2 + ? =$ 40% of 600

$\frac{3}{4} \times 144 + ? = \frac{2}{5} \times 600$

$? = 240 - 108$

$? = 132$

Hence, option B is correct.

6. $(\sqrt{?})^6 + (\sqrt{30})^4 = 2628$

$?^3 + 30^2 = 2628$

$?^3 = 2628 - 900 = 1728$

$? = 12$

Hence, option D is correct.

7. $27^{2/3} + 216^{1/3} + ? = 125^{2/3}$

$3^{3 \times 2/3} + 6^{3 \times 1/3} + ? = 5^{3 \times 2/3}$

$9 + 6 + ? = 25$

$? = 10$

Hence, option C is correct.

8.

$7\frac{2}{3}$ of 15 + $9\frac{1}{6}$ of 30 = 0.5 × ?

$\frac{23}{3} \times 15 + \frac{55}{6} \times 30 = 0.5 \times ?$

$23 \times 5 + 55 \times 5 = 0.5 \times ?$

$5\ (23 + 55) = \frac{5}{10} \times ?$

? = 780

Hence, option C is correct.

---

9. $29 \times ? = 1856 \div 4 \div 2$

$? = \frac{1856}{8 \times 29} = 8$

Hence, option E is correct.

---

10. $6587 - 2134 + 3125 = ? \times 5^3 \times 64 \div 2^3$

$7578 = ? \times 5 \times 25 \times 8$

$7578 = ? \times 1000$

? = 7.578

Hence, option D is correct.

---

11. 5% of $5^2 \times 12^2 - 140 = 2 \times ?$

$\frac{5}{100} \times 25 \times 144 - 140 = 2 \times ?$

$\frac{5}{4} \times 144 - 140 = 2 \times ?$

$180 - 140 = 40 = 2 \times ?$

? = 20

Hence, option C is correct.

12.

$2\frac{5}{13}$ % of 5200 + $1\frac{1}{17}$ % of 5100 = ?

$\frac{31}{1300} \times 5200 + \frac{18}{1700} \times 5100 = ?$

$? = 31 \times 4 + 18 \times 3$

$? = 124 + 54 = 178$

Hence, option C is correct.

13. $33 \times ? \div 3 = 1.5$ % of $(2^5 \times 5^5 \times 363)$

$11 \times ? = 1.5$ % of $(10^5 \times 363)$

$? = 33 \times 10^5 \times \frac{3}{200}$

$? = 33 \times 10^3 \times 1.5$

$? = 49500$

Hence, option E is correct.

14. ?% of $(15360 \div 4) = 2^{11} - 2^9$

$\frac{?}{100} \times 3840 = 2^9 \times (4 - 1)$

$\left(\frac{?}{100}\right) \times 3840 = 512 \times 3 = 1536$

$? = 1536 \times \frac{100}{384}$

$? = 40$

Hence, option C is correct.

15. $325 \div 13 \times \sqrt{784} = 10\%$ of ?

$25 \times 28 = \frac{1}{10}$ of ?

$? = 7000$

Hence, option A is correct.

16. $\sqrt[3]{(?)} \times 140 + 260 = 0.4^2 \times 5125$

$\sqrt[3]{?} \times 140 = 820 - 260$

$\sqrt[3]{?} \times 140 = 560$

$\sqrt[3]{?} = 4$

$? = 64$

Hence, option D is correct.

17. $\sqrt{3136} \times 7^{-2} \div 5^{-5} \times 14 = ?$

$56 \times \frac{1}{49} \times 5^5 \times 14 = ?$

$? = 8 \times 5^5 \times 2$

$? = 50000$

Hence, option A is correct.

18. 25% of 624 + ? = 729 – 512

$25 \times \frac{624}{100} + ? = 217$

$? = 217 - 156 = 61$

Hence, option A is correct.

19.

$8\frac{1}{7} \div \frac{19}{168} \times 167\frac{1}{3} = (7^2 - 1) \times ?$

$48 \times ? = \frac{57}{7} \times \frac{168}{19} \times \frac{502}{3}$

$48 \times ? = 24 \times 502$

$? = 251$

Hence, option C is correct.

20.

$\frac{4}{7} \times \frac{9}{14} \div \frac{16}{28} + \frac{4}{3} - ? = 1$

$\frac{4}{7} \times \frac{9}{14} \times \frac{28}{16} + \frac{4}{3} - 1 = ?$

$\frac{9}{14} + \frac{4}{3} - 1 = ?$

$\frac{27 + 56 - 42}{42} = ?$

$\frac{41}{42} = ?$

Hence, option B is correct.

21. $5 \times \sqrt{?} = 735 \div 3$

$5 \times \sqrt{?} = 245$

$\sqrt{?} = 49$

$? = 2401$

Hence, option C is correct.

22. 20% of 2^7 + 40% of 64 – ? = 0

20% of 128 + 40% of 64 = ?

$20 \times \frac{128}{100} + 40 \times \frac{64}{100} = ?$

$2 \times 20 \times \frac{128}{100} = ?$

$? = 51.2$

Hence, option A is correct.

23. $(4.5 \times 4.5 \times 4.5 \times 4.5) \div 225 \div 25 + 3^3 = ?$

$\frac{4.5 \times 4.5 \times 4.5 \times 4.5}{15 \times 15 \times 25} + 27 = ?$

$(0.3 \times 0.3 \times 0.9 \times 0.9) + 27 = ?$

$0.0729 + 27 = ?$

$? = 27.0729$

Hence, option C is correct.

24.

$3\frac{1}{2} \times \frac{7\frac{2}{5}}{9\frac{3}{5}} \times 8^2 \times 60 = 2^4 \times ?$

$\frac{7}{2} \times \frac{37}{5} \times \frac{5}{48} \times 64 \times 60 = 2^4 \times ?$

$\frac{7 \times 37 \times 64 \times 60}{48 \times 2} = 2^4 \times ?$

$? \times 16 \times 96 = 7 \times 37 \times 64 \times 60$

$? = 647.5$

Hence, option C is correct.

25. $(2^3 + 7^2) \div 2 \times 3 = ?$

$\frac{8 + 49}{2} \times 3 = ?$

$\frac{57}{2} \times 3 = ?$

$? = 85.5$

Hence, option D is correct.

26.

$17\frac{1}{3} + 21\frac{1}{2} = 33\frac{1}{3}\%$ of ?

$\frac{52}{3} + \frac{43}{2} = \frac{1}{3}$ of ?

$\frac{104 + 129}{6} = \frac{1}{3}$ of ?

$? = \frac{233}{2} = 116.5$

Hence, option A is correct.

27.

$\frac{18 \times \frac{8}{15} + 10\% \text{ of } 624}{?} = 4$

$6 \times \frac{8}{5} + 62.4 = ? \times 4$

$9.6 + 62.4 = 72 = 4 \times ?$

$? = 18$

Hence, option B is correct.

28. $\sqrt{1024} \times 40 + 20^2 + 0.5\% \text{ of } 9600 + 469 = ?^3$

$32 \times 40 + 400 + 48 + 469 = ?^3$

$1280 + 448 + 469 = ?^3$

$2197 = ?^3$

$? = 13$

Hence, option B is correct.

29.

$4\frac{3}{5}\%$ of 6500 + $3\frac{2}{7}\%$ of 3500 = ?

$\frac{23}{500} \times 6500 + \frac{23}{700} \times 3500 = ?$

? = 23 × (13 + 5)

? = 23 × 18 = 414

Hence, option B is correct.

---

30. $4^4 + 5^4$ + 10% of 8000 = $?^2$

256 + 625 + 800 = 1681 = $?^2$

? = 41

Hence, option C is correct.

31.

$13\frac{2}{3}\%$ of 3300 + 25% of 184 = 40% of ?

$\frac{41}{300} \times 3300 + \frac{1}{4} \times 184 = 41 \times 11 + 46 =$ 40% of ?

$451 + 46 = \frac{2}{5} \times ?$

$? = 497 \times \frac{5}{2} = 1242.5$

Hence, option A is correct.

32.

$11\frac{1}{3}$ of 117 + $13\frac{3}{5}$ of 115 = ?

$? = \frac{34}{3} \times 117 + \frac{68}{5} \times 115$

? = 34 × 39 + 68 × 23

? = 1326 + 1564 = 2890

Hence, option A is correct,

33.

$$\frac{12\% \text{ of } 273000}{13\% \text{ of } 42} + \frac{11\% \text{ of } 58500}{13\% \text{ of } 45} = ?$$

$$\frac{12 \times 273000}{100} \times \frac{100}{13 \times 42} + \frac{11 \times 58500}{100} \times \frac{100}{13 \times 45} = ?$$

$500 \times 12 + 100 \times 11 = 6000 + 1100 = 7100$

Hence, option D is correct.

34.

$$8125 \div 13 \div 2\frac{1}{2} \times 10^2 = ?$$

$$\frac{8125}{13} \times \frac{2}{5} \times 100 = ?$$

$? = 25000$

Hence, option B is correct.

35. $(2^{-3} + 12.5\% \text{ of } 624) \times 4^4 = 5^3 \times ?$

$$(\frac{1}{8} + \frac{1}{8} \times 624) \times 256 = 5^3 \times ?$$

$$\frac{625}{8} \times 256 = 125 \times ?$$

$? = 5 \times 32 = 160$

Hence, option C is correct.

36. $42.32 + 423.4 + 56.28 - 122.2 = ?$

$? = 522 - 122.2 = 399.8$

Hence, option D is correct.

37.

45% of $480 + 1\frac{1}{8}$ of $2160 + 2\frac{1}{3}$ of $150 = ?$

$? = 45 \times \frac{480}{100} + \frac{9}{8} \times 2160 + \frac{7}{3} \times 150$

$? = 216 + 270 \times 9 + 7 \times 50$

$? = 216 + 2430 + 350$

$? = 2996$

Hence, option A is correct.

38.

$4\frac{1}{3} + 6\frac{1}{5} - 7\frac{1}{2} = \frac{?}{8}$

$\frac{13}{3} + \frac{31}{5} - \frac{15}{2} = \frac{?}{8}$

$\frac{130 + 186 - 225}{30} = \frac{?}{8}$

$\frac{91}{15} = \frac{?}{4}$

$? = \frac{364}{15} = 24.26$

Hence, option C is correct.

39. $13^2 + 5^3 - 4^4 = 10\%$ of $?$

$169 + 125 - 256 = \frac{1}{10} \times ?$

$? = 380$

Hence, option E is correct.

40. $729^2 \div 6^3 \times 27^8 = 27^{?+6} \div 216$

$(27^2)^2 \div 6^3 \times 27^8 = 27^{?+6} \div 6^3$

$27^{4+8} = 27^{?+6}$

$4 + 8 = ? + 6$

$? = 12 - 6$

$? = 6$

Hence, option A is correct.

41. $(4698 - 3625 - 857) = ?^3 - 42 - \sqrt{7225}$

$4698 - 4482 = ?^3 - 42 - 85$

$216 = ?^3 - 127$

$?^3 = 216 + 127$

$?^3 = 343$

$? = 7$

Hence, option C is correct.

42.

$$\frac{?}{37} = \frac{15}{?} \times \frac{1}{2145} \times \frac{1}{9.25} \times 676 \times 143$$

$$?^2 = \frac{37 \times 15 \times 676 \times 143}{2145 \times 9.25}$$

$?^2 = 4 \times 676$

$? = 2 \times 26 = 52$

Hence, option E is correct.

43. $\sqrt{441} \times (985.35 - 969.35) = ?^{1/2} + 305$

$21 \times 16 = ?^{1/2} + 305$

$336 - 305 = ?^{1/2}$

$?^{1/2} = 31$

$? = 961$

Hence, option D is correct.

44. $6992 \div 19 - ?\% \text{ of } 652 = -4196$

$368 + 4196 = ?\% \text{ of } 652$

$?\% \text{ of } 652 = 4564$

$? = 4564 \div 652 \times 100$

$? = 700$

Hence, option A is correct.

45.

$$\left[\frac{3}{2} + \frac{1}{2}\left\{\frac{3}{4} - \frac{1}{2}\left(\frac{7}{8} - \frac{3}{4}\right)\right\}\right] = ?$$

$$? = \left[\frac{3}{2} + \frac{1}{2}\left\{\frac{3}{4} - \frac{1}{2}\left(\frac{7}{8} - \frac{6}{8}\right)\right\}\right]$$

$$? = \left[\frac{3}{2} + \frac{1}{2}\left\{\frac{3}{4} - \frac{1}{2}\left(\frac{1}{8}\right)\right\}\right]$$

$$? = \left[\frac{3}{2} + \frac{1}{2}\left\{\frac{3}{4} - \frac{1}{16}\right\}\right]$$

$$? = \left[\frac{3}{2} + \frac{1}{2}\left\{\frac{12}{16} - \frac{1}{16}\right\}\right]$$

$$? = \left[\frac{3}{2} + \frac{1}{2}\left\{\frac{11}{16}\right\}\right]$$

$$? = \left[\frac{3}{2} + \frac{11}{32}\right]$$

$$? = \left[\frac{48}{32} + \frac{11}{32}\right]$$

$$? = \left[\frac{59}{32}\right]$$

Hence, option B is correct.

46. $(4863 - \sqrt{2601}) \times 1.5 = ?$

$? = (4863 - \sqrt{2601}) \times 1.5$

$? = (4863 - \sqrt{51 \times 51}) \times 1.5$

$? = (4863 - 51) \times 1.5$

$? = (4812) \times 1.5$

$? = 7218$

Hence, option B is correct.

47. 38% of 295 + 62% of 445 = ?

$? = \frac{38}{100} \times 295 + \frac{62}{100} \times 445$

$? = 0.38 \times 295 + 0.62 \times 445$

$? = 112.1 + 275.9$

$? = 388$

Hence, option B is correct.

48.

$1\frac{1}{7} - 1\frac{1}{9} + 1\frac{1}{63} = ?$

$? = 1 - 1 + 1 + \frac{1}{7} - \frac{1}{9} + \frac{1}{63}$

$? = 1 + \frac{1}{7} - \frac{7}{63} + \frac{1}{63}$

$? = 1 + \frac{1}{7} - \frac{6}{63}$

$? = 1 + \frac{3}{63}$

$? = \frac{66}{63} = \frac{22}{21} = 1\frac{1}{21}$

Hence, option B is correct.

49. 150% of 300 + ?% of 500 = 800

?% of 500 = 800 – 150% of 300

$\frac{?}{100} \times 500 = 800 - 450$

$\frac{?}{100} \times 500 = 350$

$? = \frac{350 \times 100}{500} = 70$

Hence, option B is correct.

50. $6318 \div \sqrt[3]{17576} = \sqrt{?} \times 9$

$? = \left(\frac{6318 \div \sqrt[3]{17576}}{9}\right)^2$

$? = \left(\frac{6318 \div 26}{9}\right)^2$

$? = \left(\frac{243}{9}\right)^2$

$? = (27)^2$

$? = 729$

Hence, option B is correct.