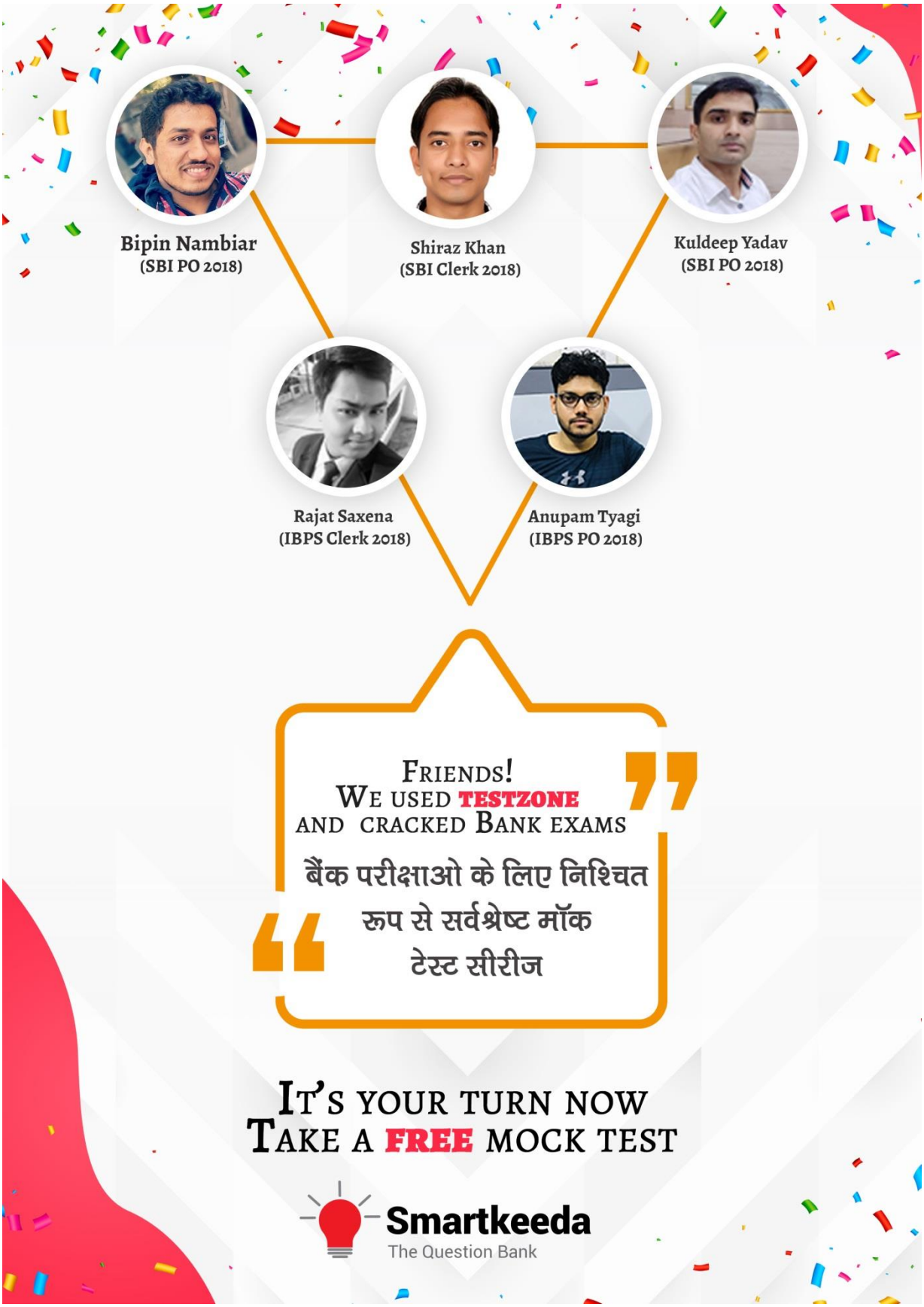
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(SBI PO 2018)
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Simplification Questions for SBI PO Pre, IBPS PO Pre, SBI Clerk Mains and IBPS Clerk Mains Exams.

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

1. $784 \div 14 + 598 \div 13 + ? = 99\%$ of 2500

A. 2475 B. 2373 C. 2285 D. 2565 E. None of these

2. $221 \div 13 \times \sqrt{576} + 10^2 = ?$

A. 628 B. 428 C. 408 D. 508 E. None of these

3. $15^2 + 12^2 = 11^2 + ?$

A. 258 B. 248 C. 262 D. 282 E. None of these

4. $6 \times 6 \times 6 \times 6 \times 6 + 6 \times 6 \times 6 \times 6 = 81 \times 3.5 \times ?$

A. 64 B. 16 C. 32 D. 16 E. None of these

5. $18\frac{1}{3}$ of $18 + 19\frac{1}{4}$ of $28 = 5.5 \times ?$

A. 198 B. 68 C. 158 D. 136 E. None of these

6. $3^{-2} + 22\frac{2}{9}\%$ of $364 = ?$

A. 243 B. 57 C. 105 D. 81 E. None of these

7. $\sqrt{1024} \times \left(\frac{1}{2^{-5}}\right) + 8^2 \times 4 = ? \times 2^6$

A. 12 B. 34 C. 6 D. 36 E. None of these

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

A. 54.2 B. 68.4 C. 22.4 D. 44.8 E. None of these

9. $15^2 + 17^2 - ? = 21^2$

A. – 63 B. – 53 C. 53 D. 73 E. None of these

10. $0.5 \times 8.4 + 3.5 \times 12.2 + 0.25 \times 10^2 = ?$

A. 128.1 B. 71.9 C. 52.7 D. 107.9 E. None of these

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11. $9 \times 9 \times 9 + 6 \times 6 \times 6 = (1.5)^{?} \times 35 \times 8$

A. 6 B. 9 C. 3 D. 1.5 E. None of these

12. $0.005 \times 10^5 \times 33 - ? = (60)^2$

A. 13500 B. 1230 C. – 1950 D. 12900 E. None of these

13. $\frac{3}{5}$ of $\frac{4}{7}$ of $\frac{2}{3}$ of $875 \div 5^{-1} = ?$

A. 1500 B. 200 C. 1000 D. 40 E. None of these

14. $11 \times ? \times 19 = 19^3 - 37 \times 95$

A. 24 B. 8 C. 22 D. 16 E. None of these

15. $15 \times 15 \times 15 + 45^2 = 3^2 \times ?$

A. 1800 B. 200 C. 600 D. 900 E. None of these

16. $5\frac{1}{3}$ of $5 + 373\frac{1}{3}$ of $1 + ? = 5^2 \times 4^2$

A. 200 B. – 200 C. 0 D. – 400 E. None of these

17. $333 \div 18.5 + 10^4 \div 2^4 + 10^2 = ?$

A. 848 B. 743 C. 924 D. 683 E. None of these

18. $5\frac{1}{5}$ % of $3000 + 6\frac{1}{3}$ % of $3000 = ?$

A. 35600 B. 3800 C. 346 D. 848 E. None of these

19. 56% of 2400 – 82% of 6000 = ? – 32% of 1800

A. –2400 B. – 3000 C. 2400 D. 3000 E. None of these

20. $16^{4.5} \times 4^{6.3} \times 8^{2.1} \div 2^{9.2} \times 32^{0.64} = 8^{2.3 + ?}$

A. 9 B. 7 C. 8 D. 3 E. 10

21. $\frac{1}{6}$ of 355 of $\frac{1}{5}$ of 2160 + √3969 – 448.98 = ?

A. 25424.02 B. 18436.02 C. 26834.02 D. 25174.02 E. None of these

22. $? = \frac{1224}{44} \times \frac{220}{23} \div \frac{340}{414}$

A. 316 B. 324 C. 336 D. 354 E. 386

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23. If X = 10, Y = 7, then

$$\frac{(X-Y)^4-18}{7}\times\frac{9XY}{10Y^2-6XY}=?$$

A. 44 B. 113 C. 66 D. 81 E. 69

24. $3990\div57+\sqrt{361}+\sqrt{324}=?^2\times535\div729\times5$

A. 6.2 B. 4.5 C. 5.6 D. 6.4 E. None of these

25. $[(2211\div67)^2-21\times\sqrt{256}]\div(549-213)=?\div1344$

A. 3052 B. 3012 C. 3042 D. 3062 E. 3032

26. $784\div\sqrt{196}+25.6\div2\times1.5\div\sqrt{8100}\times3=?$

A. 66.64 B. 76.54 C. 56.64 D. 72.64 E. 76.46

27. $?^2$ % of 11.11% of $256\times1872\div2704=81$

A. 9.75 B. 10.50 C. 11.25 D. 12.75 E. None of these

28. $3\frac{4}{7}\div[(62\%\text{ of }620\times7)\div2401]=?^2$

A. 25/61 B. $(35/62)\times\sqrt{10}$ C. $(32/75)\times\sqrt{10}$ D. 52/83 E. None of these

29. $(6561\times117)\div108\times\sqrt{36}=3^{?+4}\div216^{1/3}\times39$

A. 10 B. 6 C. 4 D. 8 E. 2

30. $137\div(512^{1/3}\div\sqrt{1225})[2+3(17\div68)]=?547310$

A. 65 B. 45 C. 74 D. 84 E. None of these

31. $(2^{12}-3^9)\times(3^6-9^3)+11^2=?$

A. 12251 B. 17781 C. 91641 D. 72361 E. None of these

32. $(37.5\times22\times48)\div2^4-?=(11)^3$

A. 1234 B. 1144 C. 1284 D. 1384 E. 1674

33. $(47+47+47+47+47+47)\times5\times(47+47)\times6\div(47\times2)=47\times?$

A. 47×180 B. 47×90 C. 90 D. None of these E. 124

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34. $2\sqrt{3} \times 3\sqrt{8} \times 2\sqrt{27} \times 2\sqrt{2} = 2^4 \times ?$

A. 18 B. 54 C. 9 D. 27 E. None of these

35. $17^2 + 19^2 + ? = 21^2 + 15^2$

A. – 16 B. 0 C. 32 D. 36 E. 16

36. $\frac{1}{1 \times 6} + \frac{1}{6 \times 11} + \frac{1}{11 \times 16} + \frac{1}{16 \times 21} = ?$

A. $\frac{3}{21}$ B. $\frac{8}{42}$ C. $\frac{2}{21}$ D. $\frac{20}{21}$ E. None of these

37. $(5175 \div 23)^{1/2} + (72 \times 2)^{1/2} = (?)^{1/2}$

A. 26 B. 29 C. 729 D. 841 E. None of these

38. $641.23 - 228.48 - 124.21 = ?$

A. 378.54 B. 278.54 C. 288.54 D. 298.54 E. None of these

39. $\frac{\sqrt{3}+1}{\sqrt{3}-1} \times 20^2 - 3^{1/2} \times 2^2 \times 10^2 = (?) \times 10$

A. 30 B. 20 C. 90 D. 120 E. None of these

40. $\sqrt{15 + \sqrt{?}} = 3^{3/2}$

A. 12 B. 13 C. 169 D. 144 E. None of these

41. 61% of 550 – ?% of 250 = 35

A. 32 B. 28 C. 37 D. 44 E. None of these

42. $5 \times ? = 735 \div 3$

A. 39 B. 59 C. 43 D. 49 E. 53

43. $\frac{4}{7} \times \frac{9}{14} \div \frac{16}{21} \times ? = 1$

A. $\frac{27}{56}$ B. $2\frac{4}{27}$ C. $1\frac{9}{27}$ D. $2\frac{2}{27}$ E. None of these

44. 19% of 250 + ? = 2^7

A. 85.5 B. 75.5 C. 80.5 D. 70.5 E. None of these

45. $(6 \times 6 \times 6 \times 6 \times 6)^5 \times (9 \times 9 \times 9)^5 \div (18 \times 18 \times 18)^3 = 2^{16} \times 3^?$

A. 36 B. 39 C. 37 D. 41 E. 43

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46. 50% of $\left(13\frac{1}{10} + 11\frac{1}{10}\right)$ = ?

A. 16.2 B. 20.1 C. 12.1 D. 6.50 E. None of these

47. $\sqrt{729} \div 45 \times 720 + ? = 30^2$

A. 512 B. 468 C. 528 D. 498 E. None of these

48. $9\frac{3}{8} \times 7\frac{3}{5} \times ? = 15^2$

A. $2\frac{2}{19}$ B. $4\frac{6}{19}$ C. $4\frac{1}{19}$ D. $3\frac{3}{19}$ E. None of these

49. 600% of $\sqrt{\frac{180 \times 81}{5}} \times 12 \div 3^{-1} = ?^2$

A. 108 B. 72 C. 144 D. 96 E. None of these

50. $16\frac{2}{3}$% of $(2.8 \times 6 + 5.4 \times 9) = 10^{-1} \times ?$

A. 10.7 B. 107 C. 126 D. 119 E. None of these

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Correct Answers:

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

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Explanations:

1. $784 \div 14 + 598 \div 13 + ? = 99\%$ of 2500

$$\frac{784}{14} + \frac{598}{13} + ? = 99 \times \frac{2500}{100}$$

$56 + 46 + ? = 2475$
$? = 2475 - 102 = 2373$
Hence, option B is correct.

2. $221 \div 13 \times \sqrt{576} + 10^2 = ?$
$221 \div 13 \times \sqrt{576} + 100$
$? = 17 \times 24 + 100$
$? = 408 + 100$
$? = 508$

Hence, option D is correct.

3. $15^2 + 12^2 = 11^2 + ?$
$225 + 144 - 121 = ?$
$? = 248$
Hence, option B is correct.

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4. $6 \times 6 \times 6 \times 6 \times 6 + 6 \times 6 \times 6 \times 6 = 81 \times 3.5 \times ?$
$6^4 (6 + 1) = 81 \times 3.5 \times ?$
$2^4 \times 3^4 \times 7 = 3^4 \times \frac{7}{2} \times ?$

$? = 2^5 = 32$
Hence, option C is correct.

5.

$$18\frac{1}{3} \text{ of } 18 + 19\frac{1}{4} \text{ of } 28 = 5.5 \times ?$$

$$\frac{55}{3} \text{ of } 18 + \frac{77}{4} \text{ of } 28 = 5.5 \times ?$$

$55 \times 6 + 77 \times 7 = 5.5 \times ?$
$11 (30 + 49) = 5.5 \times ?$
$? = 79 \times 2 = 158$
Hence, option C is correct.

6.

$$\Rightarrow \frac{\sqrt{1024} + (16 \times 13)}{\sqrt{576}} - 4 + \frac{3}{7} \times 1092 = ?$$

$$\Rightarrow \frac{32 + 208}{24} - 4 + 3 \times 156 = ?$$

$\Rightarrow 10 - 4 + 468 = ?$
$\Rightarrow ? = 474$
Hence, option B is correct.

7.

$3^{-2} + 22\frac{2}{9}\%$ of $364 = ?$

$\frac{1}{9} + \frac{200}{9}\%$ of $364 = ?$

$\frac{1}{9} + \frac{728}{9} = ?$

$\frac{729}{9} = 81 = ?$

$? = 81$

Hence, option D is correct.

---

8. $\sqrt{1024} \times \left(\frac{1}{2^{-5}}\right) + 8^2 \times 4 = ? \times 2^6$
$32 \times 2^5 + 2^6 \times 2^2 = ? \times 2^6$
$2^6 (16 + 4) = ? \times 2^6$
$? = 20$
Hence, option E is correct.

---

9. $15^2 + 17^2 - ? = 21^2$
$225 + 289 - ? = 441$
$? = 514 - 441 = 73$
Hence, option D is correct.

---

10. $0.5 \times 8.4 + 3.5 \times 12.2 + 0.25 \times 10^2 = ?$

$? = \frac{1}{2} \times 8.4 + \frac{7}{2} \times 12.2 + \frac{1}{4} \times 100$

$? = 4.2 + 42.7 + 25$
$? = 71.9$
Hence, option B is correct.

11. $9 \times 9 \times 9 + 6 \times 6 \times 6 = (1.5)^{?} \times 35 \times 8$

$729 + 216 = (1.5)^{?} \times 35 \times 8$

$945 = (1.5)^{?} \times 35 \times 8$

$(\frac{27}{8}) = (\frac{3}{2})^{?}$

$(\frac{3}{2})^{3} = (\frac{3}{2})^{?}$

Hence, option C is correct.

12. $0.005 \times 10^{5} \times 33 - ? = (60)^{2}$

$500 \times 33 - ? = 3600$

$? = 16500 - 3600 = 12900$

Hence, option D is correct.

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13. $\frac{3}{5}$ of $\frac{4}{7}$ of $\frac{2}{3}$ of $875 \div 5^{-1} = ?$

$? = 25 \times 4 \times 2 \times 5$

$? = 1000$

Hence, option C is correct.

14. $11 \times ? \times 19 = 19^{3} - 37 \times 95$

$11 \times ? \times 19 = 19\,(19^{2} - 37 \times 5)$

$11 \times ? = 361 - 185 = 176$

$? = \frac{176}{11} = 16$

Hence, option D is correct.

15. $15 \times 15 \times 15 + 45^2 = 3^2 \times ?$

$9 \times 25\ (15 + 9) = 9 \times ?$

$? = 25 \times 24 = 600$

Hence, option C is correct.

16. $5\frac{1}{3}$ of 5 $+ 373\frac{1}{3}$ of $1 + ? = 5^2 \times 4^2$

$\frac{16}{3}$ of $5 + \frac{1120}{3}$ of $1 - 400 = ?$

$(\frac{1200}{3}) - 400 = 0 = ?$

Hence, option C is correct.

17. $333 \div 18.5 + 10^4 \div 2^4 + 10^2 = ?$

$18 + 5^4 + 100 = ?$

$18 + 625 + 100 = ?$

$? = 743$

Hence, option B is correct.

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18. $5\frac{1}{5}\%$ of $3000 + 6\frac{1}{3}\%$ of $3000 = ?$

$\frac{26}{500} \times 3000 + \frac{19}{300} \times 3000 = ?$

$? = 26 \times 6 + 19 \times 10$

$? = 156 + 190 = 346$

Hence, option C is correct.

19. 56% of 2400 – 82% of 6000 = ? – 32% of 1800

$\Rightarrow 1344 - 4920 + 576 = ?$

$\Rightarrow -3000 = ?$

Hence, option B is correct.

20. $\Rightarrow 16^{4.5} \times 4^{6.3} \times 8^{2.1} \div 2^{9.2} \times 32^{0.64} = 8^{2.3+?}$

$\Rightarrow 2^{4 \times 4.5} \times 2^{2 \times 6.3} \times 2^{3 \times 2.1} \div 2^{9.2} \times 2^{5 \times 0.64} = 2^{[3 \times 2.3 + 3?]}$

$\Rightarrow 2^{18} \times 2^{12.6} \times 2^{6.3} \div 2^{9.2} \times 2^{3.2} = 2^{(6.9 + 3?)}$

$\Rightarrow 2^{(18 + 12.6 + 6.3 - 9.2 + 3.2)} = 2^{(6.9 + 3?)}$

$\Rightarrow 18 + 12.6 + 6.3 - 9.2 + 3.2 = 6.9 + 3?$

$\Rightarrow 30.9 = 6.9 + 3?$

$\Rightarrow 24 = 3?$

$\Rightarrow ? = 8$

Hence, option C is correct.

21. $\frac{1}{6}$ of 355 of $\frac{1}{5}$ of 2160 + √ 3969 – 448.98 = ?

$\Rightarrow 71 \times 360 + 63 - 448.98 = ?$

$\Rightarrow 25560 + 63 - 448.98 = ?$

$\Rightarrow ? = 25174.02$

Hence, option D is correct.

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22. $? = \frac{1224}{44} \times \frac{220}{23} \div \frac{340}{414}$

$\Rightarrow ? = \frac{\frac{1224}{44} \times \frac{220}{23}}{\frac{340}{414}}$

$\Rightarrow ? = \frac{1224}{44} \times \frac{220}{23} \times \frac{414}{340}$

$\Rightarrow ? = \frac{36}{2} \times 18$

$\therefore ? = 324$

Hence, option B is correct.

23. $\Rightarrow \frac{(X-Y)^4-18}{7} \times \frac{9XY}{10Y^2-6XY} = ?$

$\Rightarrow \frac{81-18}{7} \times \frac{9 \times 10}{10 \times 7 - 6 \times 10}$

$\Rightarrow \frac{63}{7} \times \frac{9 \times 10}{10 \times 7 - 6 \times 10}$

$\Rightarrow 9 \times \frac{90}{10}$

$\Rightarrow 81$

Hence, option D is correct.

24. $3990 \div 57 + \sqrt{361} + \sqrt{324} = ?^2 \times 535 \div 729 \times 5$

$70 + 19 + 18 = ?^2 \times 535 \div 729 \times 5$

$107 = ?^2 \times 535 \div 729 \times 5$

$?^2 = 729 \div 25$

$? = 27 \div 5$

$? = 5.4$

Hence, option E is correct.

25. $[(2211 \div 67)^2 - 21 \times \sqrt{256}] \div (549 - 213) = ? \div 1344$

$[(33)^2 - 21 \times 16] \div 336 = ? \div 1344$

$(1089 - 336) \div 336 = ? \div 1344$

$753 \times 1344 \div 336 = ?$

$? = 3012$

Hence, option B is correct.

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26. $784 \div \sqrt{196} + 25.6 \div 2 \times 1.5 \div \sqrt{8100} \times 3 = ?$

$784 \div 14 + 25.6 \div 2 \times 1.5 \div 90 \times 3 = ?$

$56 + 0.64 = ?$

$? = 56.64$

Hence, option C is correct.

27. $?^2$ % of 11.11% of $256 \times 1872 \div 2704 = 81$

$?^2 \times 1 \div 900 \times 16 \times 1872 \div 52 = 81$

$?^2 = 81 \times 900 \times 52 \div 16 \div 1872$

$?^2 = 2025/ 16$

$? = 45/ 4 = 11.25$

Hence, option C is correct.

28. $3\frac{4}{7} \div [(62\% \text{ of } 620 \times 7) \div 2401] = ?^2$

$?^2 = \frac{25}{7} \div (62 \times 62 \div 3430)$

$?^2 = \frac{25}{7} \times 3430 \div 62 \div 62$

$?^2 = 25 \times 490 \div 62 \div 62$

$? = 5 \times 7 \div 62 \times \sqrt{10}$

$? = \frac{35}{62} \times \sqrt{10}$

Hence, option B is correct.

29. $(6561 \times 117) \div 108 \times 36 = 3^{?+4} \div 216^{1/3} \times 39$

$(6561 \times 117) \div 108 \times 6 = 3^{?+4} \div 6 \times 39$

$729 \times 117 \div 12 \times 6 \times 6 \div 39 = 3^{?+4}$

$729 \times 3 \times 3 = 3^{?+4}$

$3^{6+2} = 3^{?+4}$

$8 = ? + 4$

$? = 4$

Hence, option C is correct.

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30. $13\frac{7}{5} \div (512^{1/3} \div \sqrt{1225})\ [\frac{2}{4} + \frac{3}{7}(\frac{17}{3} \div \frac{68}{10})\ ] = ?$

72/5 ÷ (8 ÷ 35) [2/4 + 3/7 (17/3 × 10/68)] = ?

72/5 × 35 ÷ 8 [2/4 + 3/7 × 5/6] = ?

63 (2/4 + 5/14) = ?

63 (10 + 14)/28 = ?

63 × 24/28 = ?

? = 63 × 6/7

? = 9 × 6 = 54

Hence, option E is correct.

31. $(2^{12} - 3^9) \times (3^6 - 9^3) + 11^2 = ?$

? = $(2^{12} - 3^9) \times (729 - 729) + 121$

? = 121 + 0 = 121

Hence, option E is correct.

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32. $(37.5 \times 22 \times 48) \div 2^4 - ? = (11)^3$

$\frac{37.5 \times 22 \times 48}{16} - 1331 = ?$

? = 37.5 × 22 × 3 – 1331

? = 2475 – 1331 = 1144

Hence, option B is correct.

33. (47 + 47 + 47 + 47 + 47 + 47) × 5 × (47 + 47) × 6 ÷ (47 × 2) = 47 × ?

$47 \times 6 \times 5 \times 47 \times 2 \times \frac{6}{47 \times 2} = 47 \times ?$

47 × 6 × 5 × 6 = 47 × ?

? = 180

Hence, option D is correct.

34. $2\sqrt{3} \times 3\sqrt{8} \times 2\sqrt{27} \times 2\sqrt{2} = 2^4 \times ?$

$2^4 \times ? = 2\sqrt{3} \times 6\sqrt{2} \times 6\sqrt{3} \times 2\sqrt{2}$

$? \times 2^4 = 2 \times 6 \times 6 \times 2 \times 3 \times 2$

$? = 3 \times 3 \times 3 \times 2 = 54$

Hence, option B is correct.

35. $17^2 + 19^2 + ? = 21^2 + 15^2$

$289 + 361 + ? = 441 + 225$

$? = 666 - 650 = 16$

Hence, option E is correct.

36.

$$\frac{1}{1 \times 6} + \frac{1}{6 \times 11} + \frac{1}{11 \times 16} + \frac{1}{16 \times 21} = ?$$

$$? = \frac{1}{5}\left(1 - \frac{1}{6} + \frac{1}{6} - \frac{1}{11} + \frac{1}{11} - \frac{1}{16} + \frac{1}{16} - \frac{1}{21}\right)$$

$$? = \frac{1}{5}\left(1 - \frac{1}{21}\right)$$

$$? = \frac{1}{5} \times \frac{20}{21}$$

$$? = \frac{4}{21} = \frac{8}{42}$$

Hence, option B is correct.

37. $(5175 \div 23)^{1/2} + (72 \times 2)^{1/2} = (?)^{1/2}$

$225^{1/2} + 144^{1/2} = (?)^{1/2}$

$15 + 12 = 27 = ?^{1/2}$

$? = 729$

Hence, option C is correct.

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38. 641.23 – 228.48 – 124.21 = ?

? = 288.54

Hence, option C is correct.

39.

$\frac{\sqrt{3}+1}{\sqrt{3}-1} \times 20^2 - 3^{1/2} \times 2^2 \times 10^2 = (?) \times 10$

$(?) \times 10 = \frac{\sqrt{3}+1}{\sqrt{3}-1} \times \frac{\sqrt{3}+1}{\sqrt{3}+1} \times 400 - \sqrt{3} \times 4 \times 100$

$(?) \times 10 = \frac{(\sqrt{3}+1)^2}{2} \times 400 - 400\sqrt{3}$

$(?) \times 10 = (3 + 1 + 2\sqrt{3}) \times 200 - 400\sqrt{3}$

$(?) \times 10 = 4 \times 200 + 400\sqrt{3} - 400\sqrt{3}$

$(?) \times 10 = 8 \times 100$

$(?) \times 10 = 800$

? = 80

Hence, option E is correct.

The Question Bank

40. $\sqrt{15 + \sqrt{?}} = 3^{3/2}$

$15 + ?^{1/2} = 3^3$

$?^{1/2} = 27 - 15 = 12$

? = 144

Hence, option D is correct.

41. 61% of 550 – ?% of 250 = 3^5

$335.5 - ? \times \frac{250}{100} = 243$

335.5 – 243 = ? × 2.5

? × 2.5 = 92.5

$? = 92.5 \times \frac{2}{5} = 37$

Hence, option C is correct.

42. $5 \times ? = 735 \div 3$

$5 \times ? = 245$

$? = \frac{245}{5} = 49$

Hence, option D is correct.

43.

$\frac{4}{7} \times \frac{9}{14} \div \frac{16}{21} \times ? = 1$

$\frac{4}{7} \times \frac{9}{14} \times \frac{21}{16} \times ? = 1$

$? = \frac{14 \times 4}{9 \times 3} = \frac{56}{27} = 2\frac{2}{27}$

Hence, option D is correct.

44. 19% of 250 + ? = 2^7

$19 \times 2.5 + ? = 128$

$? = 128 - 47.5 = 80.5$

Hence, option C is correct.

45. $(6 \times 6 \times 6 \times 6 \times 6)^5 \times (9 \times 9 \times 9)^5 \div (18 \times 18 \times 18)^3 = 2^{16} \times 3^?$

$6^{5 \times 5} \times \frac{9^{5 \times 3}}{18^{3 \times 3}} = 2^{16} \times 3^?$

$\frac{2^{25} \times 3^{25} \times 3^{15} \times 3^{15}}{2^9 \times 3^9 \times 3^9} = 2^{16} \times 3^?$

$3^{(25 + 15 + 15 - 9 - 9)} = 3^?$

$? = 25 + 15 + 15 - 9 - 9 = 37$

Hence, option C is correct.

46.

50% of $\left(13\frac{1}{10}+11\frac{1}{10}\right)=?$

$\frac{1}{2}$ of $\left(\frac{131}{10}+\frac{111}{10}\right)=?$

$?=\frac{1}{2}$ of $(13.1+11.1)$

$?=\frac{24.2}{2}=12.1$

Hence, option C is correct.

47. $\sqrt{729}\div 45\times 720+?=30^2$

$\frac{27}{45}\times 720+?=900$

$?=900-432=468$

Hence, option B is correct.

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48.

$9\frac{3}{8}\times 7\frac{3}{5}\times ?=15^2$

$\frac{75}{8}\times\frac{38}{5}\times ?=225$

$\frac{15}{4}\times 19\times ?=225$

$?=\frac{60}{19}=3\frac{3}{19}$

Hence, option D is correct.

49. 600% of $\sqrt{\frac{180\times 81}{5}}\times 12\div 3^{-1}=?^2$

$6\times 6\times 9\times 12\times 3=?^2$

$?=3\times 6\times 6=108$

Hence, option A is correct.

50.

$16\frac{2}{3}\%$ of $(2.8 \times 6 + 5.4 \times 9) = 10^{-1} \times ?$

$\frac{50}{300} \times 6\,(2.8 + 3 \times 2.7) = \frac{1}{10} \times ?$

$\frac{1}{10} \times ? = 8.1 + 2.8$

$? = 10 \times 10.9 = 109$

Hence, option E is correct.

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