Simplification & Approximation Practice Questions 2021

1. What approximate value will come in place of the question mark (?) in the following question?

14.98% of 239.99 = 19.99% of ? – 25.02% of 199.99

A 196

B 430

C 540

D 635

E 840

Correct Answers: B. 430

14.98% of 239.99 = 19.99% of ? – 25.02% of 199.99

15% of 240 = 20% of ? – 25% of 200

$0.20 \times ? - 0.25 \times 200 = 0.15 \times 240$

$0.20 \times ? - 50 = 36$

$0.20 \times ? = 86$

? = 430

2. What approximate value will come in place of the question mark (?) in the following question?

$\sqrt{360.99} + \sqrt{?} - \sqrt{483.99} = \sqrt{840.98}$

A 576

B 625

C 729

D 1024

E 900

Correct Answers: D. 1024

√360.99+√(?)-√483.99=√840.98

√361+√(?)-√484=√841

19+√(?)-22=29

√(?)=29+22-19

√(?)=32

?=1024

3. What approximate value will come in place of the question mark (?) in the following question?

1141.99 + ? – 1035.01 = 1471. 98 – 1020.01

A 165

B 345

C 321

D 308

E 342

Correct Answers: B. 345

1141.99 + ? – 1035.01 = 1471. 98 – 1020.01

1142 + ? – 1035 = 1472 – 1020

107 + ? = 452

? = 452 – 107

? = 345

4. What will come in the place of question mark (?) in the given expression?

$36 \times 15 + ? - 35 \times 18 = 55 \times 20$

A 1090

B 1190

C 1240

D 1380

E 1420

Correct Answers: B. 1190

$36 × 15 + ? − 35 × 18 = 55 × 20$

$540 + ? − 630 = 1100$

$? - 90 = 1100$

$? = 1100 + 90 = 1190$

5. What will come in the place of question mark (?) in the given expression?

$4032 ÷ 14 + 12^2 − 25\%$ of $800 = ? − 25\%$ of 620

A 273

B 323

C 387

D 423

E None of these

Correct Answers: C. 387

$4032 ÷ 14 + 122 − 25\%$ of $800 = ? − 25\%$ of 620

$? − 0.25 × 620 = 288 + 144 − 0.25 × 800$

$? − 155 = 432 − 200$

$? = 387$

6. What approximate value will come in place of the question mark (?) in the following question?

$(800.01\%$ of $74.99) / 59.98 = ?^2 − √675.99$

A 3

B 6

C 10

D 15

E 12

Correct Answers: B. 6

$(800.01\%$ of $74.99) / 59.98 = ?^2 − √675.99$

$?^2 − √676 = (800\% × 75) / 60$

$?^2 − 26 = 600 / 60$

$?^2 = 10 + 26$

$? = √36$

$? = 6$

7. What approximate value will come in place of the question mark (?) in the following question?

$(19.99)^2 + 420.01\%$ of $20.01 = ?$

A 180

B 240

C 484

D 400

E 450

Correct Answers: C. 484

$(19.99)2 + 420.01\%$ of $20.01 = ?$

$? = 202 + 420\%$ of 20

$? = 400 + 84$

$? = 484$

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8. What approximate value will come in place of the question mark (?) in the following question?

79.99% of 499.98 – 124.98% of 99.99 = ?% of 25.01

A 1250

B 1300

C 1600

D 1100

E 1500

Correct Answers: D. 1100

79.99% of 499.98 – 124.98% of 99.99 = ?% of 25.01

?% × 25 = 80% × 500 – 125% × 100

?% × 25 = 400 – 125

? × 0.25 = 275

? = 275/0.25

? = 1100

9. What will come in the place of question mark (?) in the given expression?

$840 + ?^2 - 624 = 18 \times 25 + 18 \times 5$

A 21

B 20

C 17

D 19

E 18

Correct Answers: E. 18

$840 + ?^2 - 624 = 18 \times 25 + 18 \times 5$

$?^2 + 216 = 450 + 90$

$216 + ?^2 = 540$

$?^2 = 324$

? = 18

10. What will come in the place of question mark (?) in the given expression?

$[\{(1458 \div 9) \div 6\} \div 3] + 16^2 + \sqrt{225} = ?$

A 254

B 280

C 236

D 242

E None of these

Correct Answers: B. 280

$[\{(1458 \div 9) \div 6\} \div 3] + 16^2 + \sqrt{225} = ?$

? = [{162 ÷ 6} ÷ 3] + 256 + 15

? = [27 ÷ 3] + 271

? = 9 + 271

? = 280

11. What approximate value will come in place of the question mark (?) in the following question?

44.98% of 600 + 35.89 × 4 – 396.12 ÷ 17.95 = ?

A 712

B 656

C 484

D 392

E 401

Correct Answers: D. 392

44.98% of $600 + 35.89 \times 4 - 396.12 \div 17.95 = ?$

45% of $600 + 36 \times 4 - 396 \div 18 = ?$

$270 + 144 - 22 = ?$

$392 = ?$

12. What approximate value will come in place of the question mark (?) in the following question?

$54.99 + 324.93 + 5.05 \times 3.97 = ?^2$

A 23

B 26

C 20

D 18

E 30

Correct Answers: C. 20

$54.99 + 324.93 + 5.05 \times 3.97 = ?2$

$55 + 325 + 5 \times 4 = ?2$

$400 = ?2$

$20 = ?$

13. What approximate value will come in place of the question mark (?) in the following question?

$\sqrt{483.87} + \sqrt{196.13} - 15.02^2 + 219.96 = ?$

A -2

B 228

C 31

D 102

E 161

Correct Answers: C. 31

$\sqrt{483.87} + \sqrt{196.13} - 15.022 + 219.96 = ?$

$\sqrt{484} + \sqrt{196} - 152 + 220 = ?$

$22 + 14 - 225 + 220 = ?$

14. What will come in the place of question mark (?) in the given expression?

$18^2 + \sqrt{1156} - 121 - 9 \times 8 = ?$

A 165

B 185

C 168

D 188

E 193

Correct Answers: A. 165

$182 + \sqrt{1156} - 121 - 9 \times 8 = ?$

$324 + 34 - 121 - 72 = ?$

$165 = ?$

15. What will come in the place of question mark (?) in the given expression?

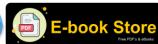$9^3 - 23^2 - 14^2 = \sqrt{?}$

A 64

B 16

C 2

D 36

E 4

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Correct Answers: B. 16

$9^3 - 23^2 - 14^2$

$729 - 529 - 196 = \sqrt{?}$

$4 = \sqrt{?}$

$16 = ?$

16. What will come in the place of question mark (?) in the given expression?

$336 \div 28 + 25 \times 9 - 206 = ?$

A 19

B 15

C 17

D 12

E 22

Correct Answers: C. 17

$336 \div 28 + 25 \times 9 - 206 = ?$

$12 + 225 - 206 = ?$

$31 = ?$

17. What will come in the place of question mark (?) in the given expression?

75% of $300 - 25\%$ of $360 = ? + 16^2$

A 144

B -25

C 16

D 49

E -121

Correct Answers: E. -121

75% of $300 - 25\%$ of $360 = ? + 16^2$

$225 - 90 = ? + 256$

$-121 = ?$

18. What will come in the place of question mark (?) in the given expression?

$1225 + 4 \times 10 = ? + 1720 - 1935 + 980$

A 549

B 502

C 500

D 518

E 526

Correct Answers: C. 500

$1225 + 4 \times 10 = ? + 1720 - 1935 + 980$

$1225 + 40 = ? + 765$

$500 = ?$

19. What will come in the place of question mark (?) in the given expression?

$450 + ? - 832 = 32^2 - 400$

A 580

B 436

C 425

D 590

E None of these

Correct Answers: E. None of these

$450 + ? - 832 = 32^2 - 400$

$? - 382 = 1024 - 400$

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? − 382 = 624

? = 1006

20. What will come in the place of question mark (?) in the given expression?

255 + ? + 320 − 472 = 362 − 296 + 361

A 285

B 295

C 324

D 315

E None of these

Correct Answers: C. 324

255 + ? + 320 − 472 = 362 − 296 + 361

? + 575 − 472 = 723 − 296

? + 103 = 427

? = 427 − 103

? = 324

21. What approximate value will come in place of the question mark (?) in the following question?

?− 29.98% of 1599.99 = 519.99% of 49.98 + 179.95 ÷ 5.99

A 428

B 485

C 770

D 634

E 765

Correct Answers: C. 770

?− 29.98% of 1599.99 = 519.99% of 49.98 + 179.95 ÷ 5.99

?− 0.3 × 1600 = 520% × 50 + 180 ÷ 6

?=480 + 260 + 30

?= 770

22. What approximate value will come in place of the question mark (?) in the following question?

19.99% of 399.98 + 299.98% of 39.98 = ?% of 799.98

A 25

B 20

C 30

D 35

E 40

Correct Answers: A. 25

19.99% of 399.98 + 299.98% of 39.98 = ?% of 799.98

?% of 800 = 20% × 400 + 300% × 40

? × 8 = 80 + 120

? × 8 = 200

? = 200/8

? = 25

23. What approximate value will come in place of the question mark (?) in the following question?

14.98% of 1299.99 = 24.98% of ? + 19.98% of 799.99

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A 124

B 140

C 232

D 276

E 310

Correct Answers: B. 140

14.98% of 1299.99 = 24.98% of ? + 19.98% of 799.99

15% of 1300 = 25% of ? + 20% of 800

$0.25 \times ? + 0.20 \times 800 = 0.15 \times 1300$

$0.25 \times ? + 160 = 195$

$0.25 \times ? = 35$

? = 140

24. What approximate value will come in place of the question mark (?) in the following question?

$14.99 \times 24.98 - 11.97 \times 17.99 = ? \times 3.01$

A 53

B 62

C 97

D 138

E 164

Correct Answers: A. 53

$14.99 \times 24.98 - 11.97 \times 17.99 = ? \times 3.01$

$15 \times 25 - 12 \times 18 = ? \times 3$

$? \times 3 = 375 - 216$

$? \times 3 = 159$

? = 53

25. What approximate value will come in place of the question mark (?) in the following question?

(11.99% of 599.98) ÷ 23.99 = ?– 29.99% of 799.98

A 185

B 299

C 61

D 247

E 243

Correct Answers: E. 243

(11.99% of 599.98) ÷ 23.99 = ?– 29.99% of 799.98

(12% of 600) ÷ 24 = ?– 30% of 800

$(0.12 \times 600) \div 24 = ? - 0.30 \times 800$

$72 \div 24 \sim ? - 240$

? = 3 + 240

? = 243

26. What approximate value will come in place of the question mark (?) in the following question?

16.98% of 899.98 = 24.98% of ? + 24.98% of 519.99

A 70

B 92

C 90

D 40

E 20

Correct Answers: B. 92

16.98% of 899.98 = 24.98% of ? + 24.98% of 519.99

17% of 900 = 25% of ? + 25% of 520

0.25 × ? + 0.25 × 520 = 0.17 × 900

0.25 × ? + 130 = 153

0.25 × ? = 23

? = 92

27. What approximate value will come in place of the question mark (?) in the following question?

13.99 × 24.98 + 39.98 × 6.99 = ? × 14.01

A 45

B 94

C 13

D 76

E 85

Correct Answers: A. 45

13.99 × 24.98 + 39.98 × 6.99 = ? × 14.01

14 × 25 + 40 × 7 = ? × 14

? × 14 = 350 +280

? × 14 = 630

? = 45

28. What approximate value will come in place of the question mark (?) in the following question?

$\{(728.35 \div 28.03) \times 13.99 - 1288.28 \div 13.94\}$= ?

A 87

B 272

C 480

D 144

E 389

Correct Answers: B. 272

$\{(728.35 \div 28.03) \times 13.99 - 1288.28 \div 13.94\}$= ?

$\{(728 \div 28) \times 14 - 1288 \div 14\}$= ?

$(26 \times 14 - 92)$ = ?

364 − 92 = ?

272 = ?

29. What approximate value will come in place of the question mark (?) in the following question?

? = $50.08^{2.01} \div (9.98 \times 24.97)$ + 25.90% of (34.96 × 20.11)

A 175

B 192

C 280

D 360

E 420

Correct Answers: B. 192

? = $50.08^{2.01} \div (9.98 \times 24.97)$ + 25.90% of (34.96 × 20.11)

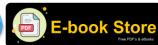? = $50^2 \div (10 \times 25)$ + 26% of (35 × 20)

? = $(50 \times 50 \div (10 \times 25))$ + 26% of 700

? = 2500 ÷ 250 + 0.26 × 700

? = 10 + 182

? = 192

30. What approximate value will come in place of the question mark (?) in the following question?

? = 29.91% of (35.2 × (144.01 + 5.95))

A 1575

B 1680

C 1360

D 1974

E 1964

Correct Answers: A. 1575

? = 29.91% of (35.2 × (144.01 + 5.95))

? = 30% of (35 × (144 + 6))

? = 30% of (35 × (144 + 6))

? = 30% of (35 × 150)

? = 30% of 5250

? = 1575

31. What will come in the place of question mark (?) in the given expression?

$81^4 ÷ 27^6 × 9^7 = 3^?$

A 12

B 10

C 8

D 6

E None of these

Correct Answers: A. 12

814 ÷ 276 × 97 = 3?

3? = (34)4 ÷ (33)6 × (32)7

3? = 316 ÷ 318 × 314

3? = 316 − 18 + 14

? = 16 − 18 + 14

? = 12

32. What will come in the place of question mark (?) in the given expression?

√2304 + √1156 - √1444 = 25% of ?

A 176

B 123

C 82

D 41

E None of these

Correct Answers: A. 176

√2304 + √1156 - √1444 = 25% of ?

0.25 × ? = 48 + 34 − 38

0.25 × ? = 44

? = 176

33. What will come in the place of question mark (?) in the given expression?

55% of 280 + 7 × 9 − 8 × 12 = ?

A 80

B 72

C 87

D 60

E None of these

Correct Answers: E. None of these

55% of 280 + 7 × 9 − 8 × 12 = ?

154 + 63 − 96 = ?

217- 96 = ?

121 = ?

34. What will come in the place of question mark (?) in the given expression?

$(252 \div 18) \times 5 + 10 \times 8 = ?$

A 88

B 96

C 150

D 126

E 106

Correct Answers: C. 150

$(252 \div 18) \times 5 + 10 \times 8 = ?$

14 × 5 + 80 = ?

70 + 80 = ?

150 = ?

35. What will come in the place of question mark (?) in the given expression?

(80% of 440 − 12 × 18 + 176) = ?

A 312

B 285

C 347

D 329

E 280

Correct Answers: A. 312

(80% of 440 − 12 × 18 + 176) = ?

352 − 216 + 176 = ?

312 = ?

36. What will come in the place of question mark (?) in the given expression?

$15^2 + \sqrt{576} - 19 \times 8 = ?$

A 34

B 25

C 97

D 19

E 45

Correct Answers: C. 97

$152 + \sqrt{576} - 19 \times 8 = ?$

225 + 24 − 152 = ?

97 = ?

37. What will come in the place of question mark (?) in the given expression?

$54\% \text{ of } 700 + 17^2 - 286 \div 22 = ?$

A 845

B 712

C 840

D 756

E 654

Correct Answers: E. 654

54% of 700 + 172 − 286 ÷ 22 = ?

378 + 289 − 13 = ?

654 = ?

38. What will come in the place of question mark (?) in the given expression?

60% of 455 + 152 + 6 × 7 = ?

A 409

B 467

C 432

D 457

E None of these

Correct Answers: B. 467

60% of 455 + 152 + 6 × 7 = ?

273 + 152 + 42 = ?

? = 467

39. What will come in the place of question mark (?) in the given expression?

? = 725 ÷ 25 − 75% of 14^2 + 120

A 87

B 44

C 65

D 56

E None of these

Correct Answers: E. None of these

? = 725 ÷ 25 − 75% of 142 + 120

? = 29 − 147 + 120

? = 2

40. What will come in the place of question mark (?) in the given expression?

? = (52 × 296) ÷ 32 − 15 × 8

A 284

B 245

C 216

D 361

E None of these

Correct Answers: D. 361

? = (52 × 296) ÷ 32 − 15 × 8

? = 15392 ÷ 32 − 120

? = 481 − 120

? = 361

41. What approximate value will come in place of the question mark (?) in the following question?

54.97% of 840 − 18.95 × 9.03 + 24.06 × 8.01 = ?

A 96

B 518

C 195

D 306

E 483

Correct Answers: E. 483

54.97% of 840 – 18.95 × 9.03 + 24.06 × 8.01 = ?

55% of 840 – 19 × 9 + 24 × 8 = ?

462 – 171 + 192 = ?

483 = ?

42. What approximate value will come in place of the question mark (?) in the following question?

$624.12 \div 24.08 + 18.05^2 + 15.18 \times 19.98 = ?$

A 368

B 172

C 280

D 650

E 429

Correct Answers: D. 650

$624.12 \div 24.08 + 18.05^2 + 15.18 \times 19.98 = ?$

$624 \div 24 + 18^2 + 15 \times 20 = ?$

26 + 324 + 300 = ?

650 = ?

43. What approximate value will come in place of the question mark (?) in the following question?

71.89% of 649.92 + 26.11 × 9.93 – 231.13 = ?

A 184

B 280

C 497

D 473

E 319

Correct Answers: C. 497

71.89% of 649.92 + 26.11 × 9.93 – 231.13 = ?

72% of 650 + 26 × 10 – 231 = ?

468 + 260 – 231 = ?

497 = ?

44. What approximate value will come in place of the question mark (?) in the following question?

? = 24.95% of (65.11 × 15.99) + 1254.99

A 1220

B 1080

C 1515

D 1440

E 1560

Correct Answers: C. 1515

? = 24.95% of (65.11 × 15.99) + 1254.99

? = 25% of (65 × 16) + 1255

? = 25% of 1040 + 1255

? = 260 + 1255

? = 1515

45. What will come in the place of question mark (?) in the given expression?

$(185 + 8^3 \div ?^2) \times 8 = 1496$

A 16

B 14

C 18

D 12

B 55

E 24

C 50

Correct Answers: A. 16

D 72

$(185 + 83 \div ?^2) \times 8 = 1496$

E 40

$(185 + 512 \div ?^2) = 187$

Correct Answers: D. 72

$512 \div ?^2 = 2$

$(\sqrt{3136} + 625 \div 25)\% \text{ of } 800 = ?\% \text{ of } 900$

$?^2 = 256$

$?\% \times 900 = (56 + 25)\% \times 800$

$? = 16$

$? \times 9 = 0.81 \times 800$

46. What will come in the place of question mark (?) in the given expression?

$? = 648 \div 9$

$? = 72$

$? = (36^2 - 14 \times (24^2 - 23^2))$

A 484

48. What will come in the place of question mark (?) in the given expression?

B 496

$65\% \text{ of } 800 = ?\% \text{ of } 2000$

C 506

A 20

D 512

B 24

E None of these

C 26

Correct Answers: E. None of these

D 36

$? = (36^2 - 14 \times (24^2 - 23^2))$

E 40

$? = 1296 - 14 \times (576 - 529)$

Correct Answers: C. 26

$? = 1296 - 14 \times 47$

$65\% \text{ of } 800 = ?\% \text{ of } 2000$

$? = 1296 - 658$

$?\% \times 2000 = 65 \times 8$

$? = 638$

$? \times 20 = 520$

47. What will come in the place of question mark (?) in the given expression?

$? = 520/20$

$? = 26$

$(\sqrt{3136} + 625 \div 25)\% \text{ of } 800 = ?\% \text{ of } 900$

A 80

49. What will come in the place of question mark (?) in the given expression?

40% of 500 + ?% of 1000 = 20^2

A 20

B 25

C 30

D 35

E 40

Correct Answers: A. 20

40% of 500 + ?% of 1000 = 202

$40 \times 5 + ?\% \times 1000 = 400$

$200 + ? \times 10 = 400$

$? \times 10 = 200$

$? = 200/10$

$? = 20$

50. What will come in the place of question mark (?) in the given expression?

$(81^5 \div 27^8) \times 9^5 = 3^{?-2}$

A 4

B 6

C 8

D 10

E None of these

Correct Answers: C. 8

$(81^5 \div 27^8) \times 9^5 = 3^{?-2}$

$3^{?-2} = \{(3^4)^5 \div (3^3)^8\} \times (3^2)^5$

$3^{?-2} = (3^{20} \div 3^{24}) \times 3^{10}$

$3^{?-2} = 3^{20-24+10}$

$3^{?-2} = 3^6$

$? - 2 = 6$

$? = 8$

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