

Simplification Questions for Bank Mains Exam – Eng Version





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Direction (1-5): What value should come in place of (?) in the following questions?

1) $120\% \text{ of } 175 + 40\% \text{ of } 280 = ? + \sqrt{14641}$

- A.205
- B.208
- C.201
- D.211
- E.198

2) $45\% \text{ of } 1600 + 30\% \text{ of } 450 - 191 \times ? = 91$

- A.4
- B.3
- C.2
- D.5
- E.8

3) $45\% \text{ of } 900 - 30\% \text{ of } 750 + 60\% \text{ of } 1450 = ? - 1800$

- A.3460
- B.3220
- C.3050
- D.2850
- E.None of these

4) $\frac{1}{9} \text{ of } 6561 - \frac{4}{5} \text{ of } 1350 + 25\% \text{ of } 8000 = \frac{1}{8} \text{ of } 4800 + ?$

- A.849
- B.949
- C.1049
- D.749
- E.None of these

5) $120 \div 3 \times 4 + 50 \div ? - 10 = (\sqrt[3]{125})^4$

- A.2/25
- B.5/46
- C.2/19
- D.25/2

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E.46/5

Direction (6-10): What value should come in place of (?) in the following questions?

6) $5\frac{2}{7}$ of $(5 \times 2 \div (8 \times 74) \times 16) = ?\%$ of 350

A.10/49

B.20/49

C.5/3136

D.5/1568

E.5/37

7) $\sqrt{(6+6*\sqrt{(22+\sqrt{(4+\sqrt{25}))})})} = 432/?$

A.108

B.72

C.86.4

D.54

E.80

8) $5\frac{7}{17}\%$ of 8500 - $26\frac{2}{3}\%$ of 1500 = $?\%$ of 950

A.6 (2/3)

B.7

C.70

D.6 (6/19)

E.65

9) $(14)^7 * (16)^{-4} / ((343)^2 * (128)^{-2}) = 2^7 * \sqrt{x}$

A.16

B.64

C.256

D.1024

E.4

10) $? - 126 \div 3 \times 11 = 25\%$ of $500 + (17)^2$

A.828

B.954

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- C.912
- D.876
- E.None of these

Direction (11-15): What value should come in place of (?) in the following questions?

11) $10 \frac{5}{9} - 5 \frac{2}{3} + 3 \frac{1}{6} - 4 \frac{1}{3} = ? - 4 \frac{2}{9}$

- A.7 $\frac{17}{18}$
- B.8 $\frac{12}{23}$
- C.6 $\frac{5}{8}$
- D.9 $\frac{3}{4}$
- E.None of these

12) $? + 116 = 275 \% \text{ of } 52 + 19^2 + (11/7) \text{ of } 84$

- A.580
- B.520
- C.640
- D.660
- E.None of these

13) $(11 \times 4 + 9 \times 7 + 29) \div [9^2 - \sqrt{729} + 14] = ?$

- A.8
- B.5
- C.2
- D.10
- E.None of these

14) $\sqrt[3]{85184} \div 11 \times 16 + (5/8) \text{ of } 120 = ? + 18$

- A.121
- B.144
- C.169
- D.196
- E.None of these

15) $(6 (1/4) + 3 (5/8) + 4 (2/16)) \times 3 - 20 \div (4 \times 3) = ?^{2/3}$

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- A.11
- B.12
- C.11/3
- D.121/3
- E.4

Direction (16-20): What value should come in place of (?) in the following questions?

16) $(12\% \text{ of } 1000 + 60\% \text{ of } 400) * 10 = ?^2$

- A.32
- B.60
- C.25
- D.41
- E.56

17) $[(5/2) + (5/3) + (5/4)]/[1 + (1/3) + (5/6)] = 29/4 - ?$

- A.3 (3/4)
- B.5
- C.5 (3/4)
- D.4 (3/4)
- E.6

18) $432 \div (18 \% \text{ of } 600) = 12 \times 3 \frac{5}{7} \text{ of } (? \div 13) \text{ of } (1/36)$

- A.70
- B.66
- C.58
- D.42
- E.None of these

19) $841 \times 8 \div 29 - 16 \% \text{ of } 200 = ? - 9^3$

- A.929
- B.843
- C.715
- D.1056
- E.None of these

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20) $(19^2 - 7^2) \times 8 \div 24 + ? \% \text{ of } 150 = 203$

- A.66
- B.72
- C.78
- D.84
- E.None of these

Direction (21-25): What value should come in place of (?) in the following questions?

21) $? \% \text{ of } (\sqrt{361}) \times 75 + 390 = 1188$

- A.81
- B.75
- C.56
- D.42
- E.None of these

22) $32 \times ? + 22^2 = 175\% \text{ of } 240 + 56 \times 8$

- A.12
- B.44
- C.96
- D.150
- E.1

23) $?^2 = (540 \times 180) \div (24^2 - 12^2) + 16\% \text{ of } 2500$

- A.75
- B.52
- C.8
- D.25
- E.38

24) $\sqrt{1296} \% \text{ of } 450 \div 9 + (18 \times 24) = (?)^2 \times 3 - 1002$

- A.32
- B.22
- C.28

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D.24

E.None of these

25) $24\% \text{ of } 560 + 54\% \text{ of } 690 - (456 \div 8) = (?)\% \text{ of } 720$

A.62.5

B.50

C.87.5

D.37.5

E.None of these

Direction (26-30): What should come in place of (?) in the following given expression?

26) $(60\% \text{ of } 75\% \text{ of } 40\% \text{ of } 1200) \times 4 + 136 = (?)^3$

A.12

B.8

C.9

D.10

E.None of these

27) $56\% \text{ of } 1200 - (4^3 * 6) / \sqrt{144} - 125\% \text{ of } (720/5) = ?$

A.440

B.460

C.480

D.490

E.510

28) $18\% \text{ of } 400 + (20\% \text{ of } 75) * (15\% \text{ of } 80) - 9\% \text{ of } 900 = ?$

A.169

B.171

C.178

D.185

E.197

29) $\sqrt{(20 * 23 - 19)} - 16 * 5 = ? + \sqrt{400} \% \text{ of } 500$

A.-115

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B.121

C.-159

D.151

E.-130

30) $9/13$ of 130 + $14/15$ of 240 - ? = $18 * 10$

A.115

B.140

C.144

D.134

E.120

Answer with Explanation

1) Answer: C

$$120\% \text{ of } 175 + 40\% \text{ of } 280 = ? + \sqrt{14641}$$

$$210 + 112 = ? + 121$$

$$? = 201$$

2) Answer: A

$$45\% \text{ of } 1600 + 30\% \text{ of } 450 - 191 \times (x) = 91$$

$$720 + 135 - 191 \times (x) = 91$$

$$x = (855-91)/191 = 4$$

3) Answer: D

$$45\% \text{ of } 900 - 30\% \text{ of } 750 + 60\% \text{ of } 1450 = ? - 1800$$

$$\Rightarrow 45/100 \times 900 - 30/100 \times 750 + 60/100 \times 1450 + 1800 = ?$$

$$\Rightarrow 405 - 225 + 870 + 1800 = ?$$

$$\Rightarrow 2850 = ?$$

4) Answer: C

$$1/9 \text{ of } 6561 - 4/5 \text{ of } 1350 + 25\% \text{ of } 8000 = 1/8 \text{ of } 4800 + ?$$

$$\Rightarrow 1/9 \times 6561 - 4/5 \times 1350 + 25/100 \times 8000 - 1/8 \times 4800 = ?$$

$$\Rightarrow 729 - 1080 + 2000 - 600 = ?$$

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=> 1049 =?

5) Answer: C

$$120 \div 3 \times 4 + 50 \div x - 10 = (125)^{(4/3)}$$

$$(120/3) * 4 + (50/x) - 10 = 625$$

$$40 * 4 + (50/x) - 10 = 625$$

$$160 + (50/x) - 10 = 625$$

$$50/x = 625 + 10 - 160 = 475$$

$$x = 50/475 = 2/19$$

6) Answer: B

$$5 (2/7) \text{ of } (5 \times 2 \div (8 \times 74) \times 16) = ?\% \text{ of } 350$$

$$(37/7) * (10/(8 * 74) * 16) = (x/100) * 350$$

$$(10/7) = (x/100) * 350$$

$$x = 20/49$$

7) Answer: B

$$\sqrt{(6+6*\sqrt{(22+\sqrt{(4+\sqrt{25}))})})} = 432/?$$

$$\sqrt{(6+6*\sqrt{(22+\sqrt{(4+5))})})} = 432/?$$

$$\sqrt{(6+6*\sqrt{(22+3))})} = 432/?$$

$$\sqrt{(6+6*5)} = 432/?$$

$$6 = 432/?$$

$$? = 72$$

8) Answer: D

$$(92/1700)*8500 - (80/300)*1500 = (x/100)*950$$

$$92*500 - 80*500 = x*950$$

$$12*500 = x*950$$

$$x = 120/19 = 6(6/19)$$

9) Answer: C

$$(14)^7 * (16)^{-4} / ((343)^2 * (128)^{-2}) = 2^7 * \sqrt{x}$$

$$2^7 * 7^7 * (2^4)^{-4} / (7^6 * (2^7)^{-2}) = 2^7 * \sqrt{x}$$

$$2^{(7-16+14)} * 7^{(7-6)} = 2^7 * \sqrt{x}$$

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$$2^5 * 7 = 2 * 7 * \sqrt{x}$$

$$2^4 = \sqrt{x}$$

$$x = 256$$

10) Answer: D

$$x - 126 \div 3 \times 11 = 25 \% \text{ of } 500 + (17)^2$$

$$x - (126 / 3) * 11 = (25 / 100) * 500 + 289$$

$$x - 462 = 125 + 289$$

$$x = 414 + 462 = 876$$

11) Answer: A

$$10 \frac{5}{9} - 5 \frac{2}{3} + 3 \frac{1}{6} - 4 \frac{1}{3} + 4 \frac{2}{9} = x$$

$$x = (10 - 5 + 3 - 4 + 4) (5/9 - 2/3 + 1/6 - 1/3 + 2/9)$$

$$x = 8 [(10 - 12 + 3 - 6 + 4) / 18]$$

$$x = 8 (-1/18) = (144 - 1) / 18 = 143 / 18 = 7 \frac{17}{18}$$

12) Answer: B

$$x + 116 = 275 \% \text{ of } 52 + 19^2 + (11/7) \text{ of } 84$$

$$x + 116 = (275 / 100) * 52 + 361 + (11 / 7) * 84$$

$$x + 116 = 143 + 361 + 132$$

$$x = 636 - 116 = 520$$

13) Answer: C

$$(11 \times 4 + 9 \times 7 + 29) \div [9^2 - \sqrt{729} + 14] = x$$

$$(44 + 63 + 29) / (81 - 27 + 14) = x$$

$$x = 136 / 68 = 2$$

14) Answer: A

$$\sqrt[3]{85184} \div 11 \times 16 + (5/8) \text{ of } 120 = x + 18$$

$$(44 / 11) * 16 + (5/8) * 120 - 18 = x$$

$$x = 64 + 75 - 18 = 121$$

15) Answer: A

$$[(25/4) + (29/8) + (33/8)] * 3 - (20/12) = x^2/3$$

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$$[(50 + 29 + 33)/8] * 3 - (5/3) = x^2/3$$

$$(112/8) * 3 - (5/3) = x^2/3$$

$$42 - 5/3 = x^2/3$$

$$121/3 = x^2/3$$

$$x = 11$$

16) Answer: B

$$(12\% \text{ of } 1000 + 60\% \text{ of } 400) * 10 = ?^2$$

$$(120 + 240) * 10 = ?^2$$

$$?^2 = 360 * 10$$

$$? = 60$$

17) Answer: D

$$[(30 + 20 + 15)/12]/[(6 + 2 + 5)/6] = 29/4 - x$$

$$(65/12)/(13/6) = 29/4 - x$$

$$5/2 = 29/4 - x$$

$$x = 29/4 - 5/2$$

$$x = 19/4 = 4 \frac{3}{4}$$

18) Answer: D

$$432 \div (18\% \text{ of } 600) = 12 \times 3 \frac{5}{7} \text{ of } (x \div 13) \text{ of } (1/36)$$

$$432 \div [(18/100) * 600] = 12 * (26/7) * (x/13) * (1/36)$$

$$(432/108) = 12 * (26/7) * (x/13) * (1/36)$$

$$(4 * 36 * 13 * 7)/(12 * 26) = x$$

$$x = 42$$

19) Answer: A

$$841 \times 8 \div 29 - 16\% \text{ of } 200 = x - 9^3$$

$$(841 * 8)/29 - (16/100) * 200 + 729 = x$$

$$x = 232 - 32 + 729$$

$$x = 929$$

20) Answer: A

$$(19^2 - 7^2) \times 8 \div 24 + x\% \text{ of } 150 = 203$$

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$$(361 - 49) * (8/24) + (x/100) * 150 = 203$$

$$(312/3) + (3x/2) = 203$$

$$(3x/2) = 203 - 104$$

$$(3x/2) = 99$$

$$x = 99 * (2/3) = 66$$

21) Answer: C

$$x \% \text{ of } (\sqrt{361}) \times 75 + 390 = 1188$$

$$(x/100) * 19 * 75 + 390 = 1188$$

$$(x/100) * 19 * 75 = 1188 - 390$$

$$x = (798 * 100)/(19 * 75)$$

$$x = 56$$

22) Answer: A

$$32 \times ? + 22^2 = 175\% \text{ of } 240 + 56 \times 8$$

$$32 \times ? = 1.75 \times 240 + 448 - 484$$

$$32 \times ? = 868 - 484$$

$$? = 384/32 = 12$$

23) Answer: D

$$?^2 = (540 \times 180) \div (24^2 - 12^2) + 16\% \text{ of } 2500$$

$$?^2 = (540 \times 180) \div (36 \times 12) + 0.16 \times 2500$$

$$?^2 = 225 + 400$$

$$?^2 = 625$$

$$? = 25$$

24) Answer: B

$$\sqrt{1296\% \text{ of } 450} \div 9 + (18 \times 24) = (?)^2 \times 3 - 1002$$

$$(36\% \times 450)/9 + 432 + 1002 = (?)^2 \times 3$$

$$(18 + 1434)/3 = (?)^2$$

$$(?) = (484)^{1/2} = 22$$

Hence, the answer is option B

25) Answer: A

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$$24\% \text{ of } 560 + 54\% \text{ of } 690 - (456 \div 8) = (?)\% \text{ of } 720$$

$$134.4 + 372.6 - 57 = (?)\% \times 720$$

$$(450 \times 100)/720 = (?)$$

$$(?) = 62.5$$

Hence, the answer is option A

26) Answer: D

$$(60\% \text{ of } 75\% \text{ of } 40\% \text{ of } 1200) \times 4 + 136 = (?)^3$$

$$(3/5 \times 3/4 \times 2/5 \times 1200) \times 4 + 136 = (?)^3$$

$$864 + 136 = (?)^3$$

$$(?) = (1000)^{1/3} = 10$$

Hence, the answer is option D

27) Answer: B

$$56\% \text{ of } 1200 - (4^3 \times 6)/\sqrt{144} - 125\% \text{ of } (720/5) = ?$$

$$672 - 32 - 180 = ?$$

$$? = 460$$

28) Answer: B

$$18\% \text{ of } 400 + (20\% \text{ of } 75) \times (15\% \text{ of } 80) - 9\% \text{ of } 900 = ?$$

$$72 + 180 - 81 = ?$$

$$171 = ?$$

29) Answer: C

$$\sqrt{(20 \times 23 - 19)} - 16 \times 5 = ? + \sqrt{400} \% \text{ of } 500$$

$$\sqrt{(460 - 19)} - 80 = ? + 20/100 \times 500$$

$$21 - 80 = ? + 100$$

$$? = -159$$

30) Answer: D

$$9/13 \times 130 + 14/15 \times 240 - ? = 18 \times 10$$

$$90 + 224 - ? = 180$$

$$? = 314 - 180$$

$$? = 134$$