

Practice Questions For SBI/IBPS Clerk: Simplification

Q1. What will come in the place of question (?) mark in the following questions.

$$56\% \text{ of } 750 + ?^2 = 16^2 + 17.5 \times 24$$

- (a) 16
- (b) 14
- (c) 18
- (d) -16
- (e) Both (a) and (d)

Ans.(e)

Sol. $\frac{56}{100} \times 750 + ?^2 = 256 + 420$

$$?^2 = 676 - 420$$

$$?^2 = 256$$

$$? = \pm 16$$

Q2. What will come in place of question mark (?) in the following questions.

$$7072 \div (16\% \text{ of } 884) = 30 \times 1 \frac{1}{12} \text{ of } (? \div 39)$$

- (a) 60
- (b) 50
- (c) 70
- (d) 40
- (e) 80

Ans.(a)

Sol.

$$\begin{aligned} 7072 \div \left(\frac{884 \times 16}{100} \right) &= 30 \times \frac{13}{12} \times \frac{?}{39} \\ 50 \times 6 &= 5 \times ? \\ ? &= \frac{50 \times 6}{5} = 60 \end{aligned}$$

Q3. What will come in the place of question (?) mark in the following questions.

$$572 \div \sqrt{676} \times \sqrt[3]{1728} - 200 = 2^?$$

- (a) 5
- (b) 6
- (c) 7
- (d) 8
- (e) 10

Ans.(b)

Sol. $2^? = 572 \div 26 \times 12$

$$2^? = 264 - 200 = 64 = 2^6$$

$$\text{Or, } ? = 6$$

Q4. What will come in the place of question (?) mark in the following questions.

$$\frac{22}{7} + \frac{71}{14} - ? = 2\frac{1}{7}$$

- (a) $4\frac{1}{14}$
- (b) $6\frac{1}{14}$
- (c) $8\frac{1}{14}$
- (d) $9\frac{1}{14}$
- (e) $2\frac{1}{14}$

Ans.(b)

Sol.

$$\begin{aligned}\frac{22}{7} &= 3\frac{1}{7}, \frac{71}{14} = 5\frac{1}{14} \\ ? &= (3 + 5 - 2) + \frac{2+1-2}{14} \\ ? &= 6\frac{1}{14}\end{aligned}$$

Q5. What is the value of (?) in the following questions?

$$(35)^2 - (15)^2 + (27)^2 = (?)^3$$

- (a) 14
- (b) 15
- (c) 13
- (d) 11
- (e) 12

Ans.(e)

$$\text{Sol. } ?^3 = (35)^2 - (15)^2 + (27)^2 = 1225 - 225 + 729 = 1729 \Rightarrow ? = 12$$

Q6. What value should come in place of (?) in the following questions?

$$2652 - 441 + 928 - 6\frac{2}{3}\% \text{ of } 3375 = ? + (31)^2$$

- (a) 1953
- (b) 1853
- (c) 1825
- (d) 1935
- (e) 1950

Ans.(a)

Sol.

$$\begin{aligned}2652 - 441 + 928 - \frac{1}{15} \times 3375 &= ? + 961 \\ 2652 - 441 + 928 - 225 - 961 &= ? \\ ? &= 1953\end{aligned}$$



Q7. What will come in the place of question (?) mark in following the question.

$$102.55 + 108.62 - 11.17 = ? \times 10$$

- (a) 20
- (b) 15
- (c) 18
- (d) 28
- (e) 25

Ans.(a)

Sol. $102.55 + 108.62 - 11.17 = ? \times 10$

$$? = 200/10 = 20$$

Q8. What should come in place of question mark (?) in the following questions?

$$(85)^{11.2} \div (85)^{3.4} \times (85)^{1.2} = (85)^{?+3}$$

- (a) 6
- (b) 8
- (c) 9
- (d) 12
- (e) 5

Ans.(a)

Sol.

$$(85)^{11.2} \times \frac{1}{(85)^{3.4}} \times (85)^{1.2} = (85)^{?+3}$$
$$(85)^9 = (85)^{?+3}$$
$$? = 6$$

Q9. What should come in place of question mark (?) in the following questions?

$$(36\% \text{ of } 2000 + 76\% \text{ of } 6000) \div 32 = ? \times 47 - 1278 + 33$$

- (a) 50
- (b) 60
- (c) 30
- (d) 40
- (e) 70

Ans.(c)

Sol.

$$\left(\frac{36}{100} \times 2000 + \frac{76}{100} \times 6000 \right) \times \frac{1}{32} = ? \times 47 - 1245$$
$$? \times 47 = \frac{5280}{32} + 1245$$
$$? = \frac{1410}{47}$$
$$? = 30$$

Q10. What will come in the place of question (?) mark in following the question:

$$14^2 \div 7 + 36 \div 6 = ?$$

- (a) 34
- (b) 33
- (c) 32
- (d) 31
- (e) 30

Ans.(a)

Sol.

$$14^2 \div 7 + 36 \div 6 = ?$$

$$196 \div 7 + 6 = ?$$

$$28 + 6 = ?$$

$$34 = ?$$

Q11. What will come in the place of question (?) mark in following the question:

$$3.4 \times 4 \div 2 + 15.2 = \sqrt{?}$$

- (a) 441
- (b) 484
- (c) 529
- (d) 64
- (e) 676

Ans.(b)

Sol.

$$3.4 \times 4 \div 2 + 15.2 = \sqrt{?}$$

$$22 = \sqrt{?}$$

$$484 = ?$$

Q12. What will come in the place of question (?) mark in following the question:

$$21.4 + 33.6 - 45 = \sqrt{?}$$

- (a) 36
- (b) 144
- (c) 100
- (d) 64
- (e) 81

Ans.(c)

Sol.

$$55 - 45 = \sqrt{?}$$

$$10 = \sqrt{?}$$

$$100 = ?$$

Q13. What will come in the place of question (?) mark in the following questions.

$$\frac{153}{?} + 90\% \text{ of } 800 = 9^3$$

- (a) 9.5
- (b) 23
- (c) 21
- (d) 17
- (e) 27

Ans.(d)

Sol.

$$\frac{153}{?} + 9 \times 80 = 729$$

$$\frac{153}{?} = 729 - 720$$

$$\frac{153}{?} = 9$$

$$? = \frac{153}{9} = 17$$

Q14. What will come in the place of question (?) mark in following the question:

$$\sqrt[3]{6859} + (12 \times 0.2 \times 5) = ? \div 2$$

- (a) 41
- (b) 44
- (c) 52
- (d) 64
- (e) 62

Ans.(e)

Sol.

$$\sqrt[3]{6859} + (12 \times 0.2 \times 5) = ? \div 2$$

$$19 + 12 = ? \div 2$$

$$62 = ?$$

Q15. What will come in the place of question (?) mark in the following questions.

$$27^2 - \sqrt{(?)} = 386 + 220$$

- (a) 14884
- (b) 15379
- (c) 15625
- (d) 15129
- (e) 14649

Ans.(d)

$$\text{Sol. } (27)^2 - \sqrt{(?)} = 606$$

$$\Rightarrow \sqrt{(?)} = 123$$

$$\Rightarrow ? = 15129$$

Q16. What will come in the place of question (?) mark in the following questions.

$$\frac{3}{4} \text{ of } (? \% \text{ of } 420 + 43) = 174$$

(a) 45

(b) 35

(c) 55

(d) 50

(e) 40

Ans.(a)

Sol.

$$\frac{3}{4} \times \left(\frac{?}{100} \times 420 + 43 \right) = 174$$

$$\frac{?}{100} \times 420 + 43 = \frac{174 \times 4}{3}$$

$$? = 45$$

Q17. What will come in the place of question (?) mark in the following questions.

$$75\% \text{ of } 1344 + 12.5\% \text{ of } 128 = ?$$

(a) 1048

(b) 1024

(c) 1072

(d) 1096

(e) 1124

Ans.(b)

Sol.

$$\frac{3}{4} \times 1344 + \frac{1}{8} \times 128 = ?$$

$$1008 + 16 = ?$$

$$1024 = ?$$

Q18. What should come in place of question mark (?) in the following questions?

$$6\frac{3}{7} \text{ of } 266 + 630 = 7985 - ? - 5200$$

(a) 755

(b) 645

(c) 445

(d) 555

(e) 665

Ans.(c)

Sol.

$$\frac{45}{7} \times 266 + 630 = 7985 - ? - 5200$$

$$1710 + 630 = 7985 - ? - 5200$$

$$? = 2785 - 2340$$

$$? = 445$$

Q19. What will come in the place of question (?) mark in the following questions given below.

$$(0.005 \times 62.5) \div 1.25 = \frac{\sqrt{64}}{?}$$

- (a) 16
- (b) 64
- (c) 32
- (d) 8
- (e) 25

Ans.(c)

Sol.

$$(0.005 \times 62.5) \div 1.25 = \frac{\sqrt{64}}{?}$$

$$\frac{5 \times 625}{1000 \times 10} \times \frac{100}{125} = \frac{8}{?}$$

$$? = 8 \times 4 = 32$$

Q20. What will come in the place of question (?) mark in the following questions.

$$15 + 14 \times (88 \div 11 \times ?) = 1695$$

- (a) 15
- (b) 20
- (c) 10
- (d) 12
- (e) 18

Ans.(a)

Sol. $15 + 14 \times (8 \times ?) = 1695$

$$14 \times (8 \times ?) = 1680$$

$$8 \times ? = 120$$

$$? = 15$$

Q21. What will come in the place of question (?) mark in following questions.

$$470 \times 5 + 802 - 138 \times 3 - 38 = (27 \times ?^2)$$

- (a) 0
- (b) 5
- (c) 9
- (d) 10
- (e) 12

Ans.(d)

Sol.

$$2350 + 802 - 414 - 38 = (27 \times ?^2)$$

$$2700 = (27 \times ?^2)$$

$$100 = (?^2)$$

$$10 = ?$$

Q22. What will come in the place of question (?) mark in following the question.

$$\sqrt{1225} \times 40\% \text{ of } 30 = ? + 30 \times 4$$

- (a) 100
- (b) 300
- (c) 600
- (d) 150
- (e) 160

Ans.(b)

Sol.

$$\sqrt{1225} \times 40\% \text{ of } 30 = ? + 30 \times 4$$

$$35 \times \frac{40}{100} \times 30 = ? + 30 \times 4$$

$$420 = ? + 120$$

$$300 = ?$$

Q23. What will come in the place of question (?) mark in following the question.

$$120\% \text{ of } 25 + 45\% \text{ of } 200 = \sqrt{?} + 110$$

- (a) 100
- (b) 81
- (c) 49
- (d) 121
- (e) 144

Ans.(a)

Sol.

$$120\% \text{ of } 25 + 45\% \text{ of } 200 = \sqrt{?} + 110$$

$$30 + 90 = \sqrt{?} + 110$$

$$120 - 110 = \sqrt{?}$$

$$10 = \sqrt{?}$$

$$100 = ?$$

Q24. What value should come in place of (?) in the following questions?

$$12.5 \times 12 + (25)^2 - \sqrt{(?)} = (28)^2 - 10$$

- (a) 25
- (b) 4
- (c) 1
- (d) 16
- (e) 0

Ans.(c)

Sol.

$$150 + 625 - \sqrt{?} = 784 - 10$$

$$\sqrt{?} = 775 - 784 + 10$$

$$? = 1$$

Q25. What value should come in place of (?) in the following questions?

$$\frac{?+0.5}{3} + 45.5 \times 5 - (12)^2 = (9.5)^2 + 9.75$$

- (a) 49
- (b) 53
- (c) 57.5
- (d) 62.5
- (e) 75

Ans.(a)

Sol.

$$\frac{?+0.5}{3} + 227.5 - 144 = 100$$

$$\Rightarrow \frac{?+0.5}{3} = 244 - 227.5$$

$$? = 16.5 \times 3 - 0.5$$

$$? = 49.5 - 0.5$$

$$? = 49$$

Q26. What will come in the place of question (?) mark in the following questions.

$$36 \times \sqrt{225} - 56 \times 784 \div 112 = ?$$

- (a) 138
- (b) 238
- (c) 158
- (d) 258
- (e) 148

Ans.(e)

Sol. $? = 36 \times 15 - 56 \times 7$

$$? = 540 - 392$$

$$= 148$$

Q27. What will come in the place of question (?) mark in the following questions.

$$34 + 56 \div 8 \times 12 = ? + 20$$

- (a) 78
- (b) 108
- (c) 98
- (d) 88
- (e) 118

Ans.(c)

Sol. $34 + 7 \times 12 = ? + 20$

$$? = 118 - 20$$

$$? = 98$$

Q28. What will come in the place of question (?) mark in following the question:

$$\sqrt{676} + 9^2 - 129 = -? \times \frac{5}{4}$$

- (a) 12.4
- (b) 11.8
- (c) 13.8
- (d) 17.6
- (e) 10.2

Ans.(d)

Sol.

$$\sqrt{676} + 9^2 - 129 = -? \times \frac{5}{4}$$

$$-22 = -? \times \frac{5}{4}$$

$$? = 17.6$$

Q29. What value should come in place of (?) in the following questions?

$$(2744)^{1/3} + (17)^2 - 3 = ? - 79 \times 8$$

- (a) 930
- (b) 938
- (c) 918
- (d) 994
- (e) 932

Ans.(e)

Sol.

$$14 + 289 - 3 = ? - 632$$

$$? = 932$$

Q30. What will come in the place of question (?) mark in following the question:

$$55^2 + 15 \times 5 = ? \times 20$$

- (a) 166
- (b) 177
- (c) 188
- (d) 155
- (e) 199

Ans.(d)

$$\text{Sol. } ? \times 20 = 3025 + 75$$

$$? = 155$$

