

Simplification Questions - Download the PDF now!

Simplification questions are regularly asked in competitive exams. These questions carry a weightage of 1-2 questions (2-4 marks) in SSC exams and 5-15 questions(10-15 marks) in banking exams. To get a good rank in competitive exams, you should have a great practice of a variety of simplification as they are scoring questions.

Here are some tips for solving Simplification questions: Clear the basic concepts of BODMAS, percentage, power and exponents, Memorise squares, cubes and tables, Learn short tricks, get a good hold on percentages. Practice as much as you can on improving your calculation speed and accuracy.

So, we have attached 10 questions of Simplification for you to practice with. You should aim to solve these questions in less than half a minute for each.

## Practice Questions on Simplification

You can also download the Simplification questions and answers pdf. Just click on the **Download PDF** button. So let's start with the very first question.

**Directions(Q1-Q10):** What value should come in place of question mark (?) in the following questions?

**Q:1**  $4\left(\frac{2}{3}\right) - 3\left(\frac{1}{6}\right) + 5\left(\frac{5}{9}\right) - 2\left(\frac{7}{12}\right) = ?$

1.  $4\left(\frac{17}{36}\right)$
2.  $4\left(\frac{19}{36}\right)$
3.  $4\left(\frac{7}{12}\right)$
4.  $4\left(\frac{1}{2}\right)$
5.  $4\left(\frac{4}{9}\right)$

(**Difficulty: 3, Estimated Time: 20 Seconds**) Try adding the whole numbers and fractions separately...

**Q:2**  $(\sqrt{11664} + \sqrt[3]{74088}) \times ? = 125 \times 12$

1. 12
2. 13
3. 12.5
4. 15
5. 10



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(Difficulty: 4, Estimated Time: 25 Seconds) Square and cube roots questions are very common...

Q:3  $[(238 \div 4) + 36.5] \div 12 = ?\%$  of 64

1.  $12 \frac{1}{2}\%$
2. 15%
3. 16%
4. 8%
5. 10%

(Difficulty: 3, Estimated Time: 20 Seconds) Don't forget using BODMAS....

Q:4

1. 30
2. 24
3. 36
4. 48
5. 18

(Difficulty: 3, Estimated Time: 20 Seconds) Should we increase the level?

Q:5 35% of 48% of  $\frac{2}{5}$  of 15000 = ?

1. 1004
2. 996
3. 1020
4. 1008
5. 1012

(Difficulty: 3, Estimated Time: 20 Seconds) We're halfway through. Have you got all your questions correct so far?

Q:6  $1528 + 525 \div 25 - 840 = 510 + ?$

1. 199
2. 299



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3. 159

4. 189

5. 165

(Difficulty: 2, Estimated Time: 15 Seconds) This was a an easy one....

Q:7  $\sqrt{1225} \div 7 + 18.5 \times 16 - 18\% \text{ of } 10800 = ? - 1800$

1. 259

2. 169

3. 157

4. 129

5. 141

(Difficulty: 3, Estimated Time: 20 Seconds) Be prepared for such questions in exam!

Q:8  $65\% \text{ of } 180 + ?\% \text{ of } 210 = 80\% \text{ of } 225$

1. 45

2. 30

3. 40

4. 50

5. 25

(Difficulty: 2, Estimated Time: 15 Seconds) Try converting percentages to fractions to fasten the calculation

Q:9  $1500 + ? + 17.5 \times 8 - 5\% \times 20 = 1764$

1. 145

2. 115

3. 120

4. 135

5. 125

(Difficulty: 3, Estimated Time: 20 Seconds) Yes, You know how to solve such questions!



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**Q:10**  $13/17$  of  $8/156$  of  $153 = ?$ 

1. 8
2. 12
3. 7
4. 6
5. 4

**(Difficulty: 2, Estimated Time: 15 Seconds)** Did you guess them all correctly?

## Answer Key

Let's check out your score in this test.

1. (1)	2. (5)	3. (1)	4. (3)	5. (4)
6. (1)	7. (3)	8. (2)	9. (5)	10. (4)

Comment below your score, considering each question has 1 mark only. If you scored 8 to 10, congratulations! You are one step closer to selection. If you have scored 5 to 8 marks, then you are doing well, keep it up. If you have scored less than 5 marks then you need to work a little harder on this subject. But don't worry, we are here to help you master the subject.

Let's check the answers and solutions and try to find out what went wrong.

## Answers and Solutions

**Q:1** The correct answer is **option 1** i.e. **4** *[Math Processing Error]*

$$? = (4 - 3 + 5 - 2) + (2/3 - 1/6 + 5/9 - 7/12)$$

$$? = 4 + ((24 - 6 + 20 - 21)/36) = 4$$
 *[Math Processing Error]*

**Q:2** The correct answer is **option 5** i.e. **10**

$$(\sqrt{11664} + \sqrt[3]{74088}) \times ? = 125 \times 12$$

$$(108 + 42) \times ? = 1500$$



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$$\Rightarrow ? = 1500/150 = 10$$

**Q:3** The correct answer is **option 1** i.e. **12 ½%**

$$[(238 \div 4) + 36.5] \div 12 = (?% \times 64)/100$$

$$\Rightarrow (59.5 + 36.5) \div 12 = (?% \times 64)/100$$

$$\Rightarrow 8 = (?% \times 64)/100$$

$$\Rightarrow ?% = 12 \frac{1}{2}\%$$

**Q:4** The correct answer is **option 3** i.e. **36**

$$\sqrt{24 \times 435 \div ? + 16 + 18} = (18)^2$$

$$\Rightarrow 24 \times 435 \div ? + 34 = (18)^2 = 324$$

$$\Rightarrow (24 \times 435)/? = 290$$

$$\Rightarrow ? = (24 \times 435)/290 = 36$$

**Q:5** The correct answer is **option 4** i.e. **1008**

$$35\% \text{ of } 48\% \text{ of } \frac{2}{5} \text{ of } 15000 = ?$$

$$? = 35/100 \times 48/100 \times 2/5 \times 15000 = 1008$$

**Q:6** The correct answer is **option 1** i.e. **199**

$$1528 + 21 - 840 - 510 = ?$$

$$? = 1549 - 1350$$

$$? = 199$$

**Q:7** The correct answer is **option 3** i.e. **157**



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$$35/7 + 296 - 1944 = ? - 1800$$

$$301 + 1800 - 1944 = ?$$

$$? = 157$$

**Q:8** The correct answer is **option 2** i.e. **30**

$$65/100 \times 180 + ?/100 \times 210 = 80/100 \times 225$$

$$?/100 \times 210 = 180 - 117$$

$$? = (63 \times 100)/210 = 30$$

**Q:9** The correct answer is **option 5** i.e. **125**

$$1500 + 140 - 1 + ? = 1764$$

$$? = 1764 - 1639$$

$$? = 125$$

**Q:10** The correct answer is **option 4** i.e. **6**

$$13/17 \times 8/156 \times 153 = ?$$

$$\Rightarrow ? = 6$$

So, this is it for today. We will meet again with another new topic. Till then, you can practice the questions again by downloading the PDF of Simplification.