



Approximation Questions - Download PDF now!

Approximation questions are a major type of questions asked in competitive exams. These questions carry a weightage of 1-2 questions (2-4 marks) in SSC exams and 5-10 questions in bank exams. To get a good rank in competitive exams, it is important to know how to solve approximation questions in a speedy way.

Here are some tips for solving Approximation questions: Identify the important digits, focus on the most significant digits, use rounding off rules, after converting all the approximate values into integers, solve them using basic simplification rules. Remember in bank exams they can go up to 10 questions in a set, hence maintaining speed and accuracy while solving these questions will award you some major marks.

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

Practice Questions on Approximation

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

Direction (1 - 10): What approximate value will come in place of question mark (?) in the following question?

Q:1 ? = 28.66% of 776.88 - $(3.96^2/3.07^2) \times 18.07 + 16.72\%$ of 251.7

1. 228
2. 232
3. 240
4. 236
5. 242

(Difficulty: 3, Estimated Time: 20 Seconds) This one took some time, right? More to come, Be ready!

Q:2 $(5850.03 \div 38.97) + 25.04 \times 42.98 = ? \times 25.11$

1. 42
2. 40
3. 49
4. 46
5. 60

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(Difficulty: 2, Estimated Time: 15 Seconds) Increase your speed, time is running...

Q:3 $\sqrt{[(\sqrt{14640.88}) + \sqrt{?} + 14.98^2]} = 19.20$

1. 289
2. 144
3. 256
4. 196
5. 225

(Difficulty: 3, Estimated Time: 20 Seconds) It is not an easy one but I think now you're prepared for it. Did you guess it right?

Q:4 $\sqrt{[(7.98)^2 \times 32.113 + (36.02)^2 - 639.991]} / 4.303 = ?$

1. 13
2. 20
3. 16
4. 8
5. 5

(Difficulty: 3, Estimated Time: 20 Seconds) Do you remember squares up to 50? Yes they save your precious seconds

Q:5 $[2.22\sqrt{841.22 - 21.97}] + (\sqrt{16.03 - 9.0009})^2 = (?)^2 - 60.02$

1. 12
2. 11
3. 10
4. 14
5. 15

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

Q:6 $\sqrt{[(2.1) + (13.09/120.97)]} \div [(17.01/27.33) \times 431.88/33.98] = ? \div 25.298$

1. 50/13
2. 40/11



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3. 5

4. 50/11

5. 54/11

(Difficulty: 3, Estimated Time: 20 Seconds) The time is ticking. Hurry up!

Q:7 $59.95 \times 2.01 + 638.01 \div 22.1 - (27.33)^{1/3} = ?$

1. 146

2. 140

3. 135

4. 136

5. 152

(Difficulty: 2, Estimated Time: 15 Seconds) This was a easy one. Did you guess it right?

Q:8 $\sqrt{1443.98} \div 18.98 + 328.1 = ? \times 22.01$

1. 10

2. 12

3. 18

4. 15

5. 22

(Difficulty: 3, Estimated Time: 20 Seconds) It is a good question but I think now you're prepared for it. Let's go ahead

Q:9 29.98% of 880.001 = ? + 110.9

1. 144

2. 153

3. 158

4. 160

5. 163

(Difficulty: 2, Estimated Time: 15 Seconds) Another easy one! Let's score more...

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Q:10 ${}^3\sqrt{1728.01} + ? = 256.01$

1. 230
2. 235
3. 238
4. 241
5. 244

(Difficulty: 2, Estimated Time: 15 Seconds) It was a piece of cake. Did you guess them all correctly?

Answer Key

Let's check out your score in this test.

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

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 2** i.e. **232**

$$? = 28.66\% \text{ of } 776.88 - (3.96^2/3.07^2) \times 18.07 + 16.72\% \text{ of } 251.7$$

Taking approximate values,

$$? = 28.57\% \text{ of } 777 - (4^2/3^2) \times 18 + 16.66\% \text{ of } 252$$

$$? = 2/7 \times 777 - 16/9 \times 18 + 1/6 \times 252$$

$$? = 222 - 32 + 42 = 232$$



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Q:2 The correct answer is **option 3** i.e. **49**

$$(5850.03 \div 38.97) + 25.04 \times 42.98 = ? \times 25.11$$

Taking the approximate values;

$$(5850 \div 39) + 25 \times 43 = ? \times 25$$

$$\Rightarrow 150 + 1075 = ? \times 25$$

$$\Rightarrow ? = 1225/25$$

$$\Rightarrow ? = 49$$

Q:3 The correct answer is **option 5** i.e. **225**

$$\sqrt{[\sqrt{(14640.88)} + \sqrt{?} + 14.98^2]} = 19.20$$

Taking the approximate values;

$$= \sqrt{[\sqrt{(14641)} + \sqrt{?} + 15^2]} = 19$$

$$\Rightarrow \sqrt{[121 + \sqrt{?} + 15^2]} = 19$$

$$\Rightarrow \sqrt{[121 + \sqrt{?} + 225]} = 19$$

Squaring both sides;

$$\Rightarrow [121 + \sqrt{?} + 225] = 361$$

$$\Rightarrow \sqrt{?} = 361 - 346 = 15$$

$$\Rightarrow ? = 225$$

Q:4 The correct answer is **option 1** i.e. **13**

$$\sqrt{[(7.98)^2 \times 32.113 + (36.02)^2 - 639.991]/4.303} = ?$$

Taking the approximate values:

$$\Rightarrow \sqrt{[(8)^2 \times 32 + (36)^2 - 640]/4} = ?$$

$$\Rightarrow \sqrt{[64 \times 32 + 1296 - 640]/4} = ?$$



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$$\Rightarrow \sqrt{[2048 + 1296 - 640]/4} = ?$$

$$\Rightarrow \sqrt{[2704]/4} = ?$$

$$\Rightarrow ? = 52/4 = 13$$

Q:5 The correct answer is **option 2** i.e. **11**

$$[2.22\sqrt{841.22 - 21.97}] + (\sqrt{16.03 - 9.0009})^2 = (?)^2 - 60.02$$

Taking the approximate values;

$$\Rightarrow [(2 \times 29) - 22] + (4 - 9)^2 = (?)^2 - 60$$

$$\Rightarrow [58 - 22] + (-5)^2 = (?)^2 - 60$$

$$\Rightarrow 36 + 25 + 60 = ?^2$$

$$\Rightarrow ?^2 = 121$$

$$\Rightarrow ? = 11$$

Q:6 The correct answer is **option 4** i.e. **50/11**

$$\sqrt{[(2.1) + (13.09/120.97)]} \div [(17.01/27.33) \times 431.88/33.98] = ? \div 25.298$$

Taking the approximate values;

$$\sqrt{[(2) + (14/121)]} \div [(17/27) \times (432/34)] = ? \div 25$$

$$\Rightarrow \sqrt{[256/121]} \div 8 = ? \div 25$$

$$\Rightarrow (16/11) \div 8 = ? \div 25$$

$$\Rightarrow 2/11 = ? \div 25$$

$$\Rightarrow ? = 50/11$$

Q:7 The correct answer is **option 1** i.e. **146**.

$$59.95 \times 2.01 + 638.01 \div 22.1 - (27.33)^{1/3} = ?$$

Taking the approximate values;



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$$\Rightarrow 60 \times 2 + 638 \div 22 - (27)^{1/3} = ?$$

Applying the BODMAS rule,

$$\Rightarrow 120 + 29 - 3 = ?$$

$$\Rightarrow ? = 146$$

Q:8 The correct answer is **option 4** i.e. **15**

$$\sqrt{1443.98} \div 18.98 + 328.1 = ? \times 22.01$$

Taking approximate values,

$$\sqrt{1444} \div 19 + 328 = ? \times 22$$

$$\Rightarrow 2 + 328 = ? \times 22$$

$$\Rightarrow ? = 330/22 = 15$$

Q:9 The correct answer is **option 2** i.e. **153**.

$$29.98\% \text{ of } 880.001 = ? + 110.9$$

Taking approximate values,

$$30\% \text{ of } 880 = ? + 111$$

$$\Rightarrow 30 \times 880/100 = ? + 111$$

$$\Rightarrow ? = 264 - 111 = 153.$$

Q:10 The correct answer is **option 5** i.e. **244**

$$\sqrt[3]{1728.01} + ? = 256.01$$

Taking approximate values,

$$\sqrt[3]{1728.01} + ? = 256.01$$

$$12 + ? = 256$$

$$\Rightarrow ? = 244$$



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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 Approximation.



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