

# Square root and cube root questions with answers

15 exam-shaped questions with full worked solutions.

For IBPS · SBI · SSC · Railway quant.

Free, share it forward. Every question in this set was generated and verified by the ComputePrep engine — the same one behind the free daily timed drill at **[computeprep.com](https://computeprep.com)**.

# The questions

Work them on paper first. Full solutions start after question 15 — the numbering matches.

## QUESTION 1

**Powers and roots — instant recall.**

$$15^2 = ?$$

- A. 225
  - B. 240
  - C. 196
  - D. 256
  - E. 210
- 

## QUESTION 2

**Powers and roots — instant recall.**

$$20^2 = ?$$

- A. 441
  - B. 361
  - C. 400
  - D. 420
  - E. 380
- 

## QUESTION 3

**Powers and roots — instant recall.**

$$8^3 = ?$$

- A. 492
  - B. 729
  - C. 343
  - D. 512
  - E. 576
- 

## QUESTION 4

**Powers and roots — instant recall.**

$$26^2 = ?$$

- A. 729
  - B. 702
  - C. 679
  - D. 686
  - E. 676
-

**QUESTION 5****Powers and roots — instant recall.**

$\sqrt{900} = ?$

- A. 30
  - B. 29
  - C. 31
  - D. 50
  - E. 28
- 

**QUESTION 6****Powers and roots — instant recall.**

$50^2 = ?$

- A. 2486
  - B. 2500
  - C. 2601
  - D. 2450
  - E. 2401
- 

**QUESTION 7****Powers and roots — instant recall.**

$11^2 = ?$

- A. 131
  - B. 144
  - C. 133
  - D. 121
  - E. 132
- 

**QUESTION 8****Powers and roots — instant recall.**

$\sqrt{225} = ?$

- A. 13
  - B. 17
  - C. 16
  - D. 14
  - E. 15
- 

**QUESTION 9****Powers and roots — instant recall.**

$21^2 = ?$

- A. 481
  - B. 484
  - C. 400
  - D. 420
  - E. 441
-

**QUESTION 10****Powers and roots — instant recall.**

$6^3 = ?$

- A. 216
  - B. 125
  - C. 226
  - D. 343
  - E. 252
- 

**QUESTION 11****Powers and roots — instant recall.**

$23^2 = ?$

- A. 484
  - B. 529
  - C. 576
  - D. 479
  - E. 506
- 

**QUESTION 12****Powers and roots — instant recall.**

$\sqrt[3]{1331} = ?$

- A. 10
  - B. 31
  - C. 11
  - D. 9
  - E. 12
- 

**QUESTION 13****Powers and roots — instant recall.**

$12^2 = ?$

- A. 154
  - B. 169
  - C. 144
  - D. 156
  - E. 121
- 

**QUESTION 14****Powers and roots — instant recall.**

$17^2 = ?$

- A. 299
  - B. 256
  - C. 289
  - D. 324
  - E. 306
-

**QUESTION 15**

**Powers and roots — instant recall.**

$\sqrt{625} = ?$

- A. 23
  - B. 26
  - C. 75
  - D. 24
  - E. 25
-

# Answers and worked solutions

Each walkthrough is the engine's own elimination order, step for step — not a reconstruction written after the fact.

## SOLUTION 1

Answer: **225**

1. Use  $(a - b)^2$ :  $(20 - 5)^2 = 400 - 200 + 25 = 225$ .
- 

## SOLUTION 2

Answer: **400**

1.  $20^2 = 400$ .
- 

## SOLUTION 3

Answer: **512**

1.  $8^3 = 8^2 \times 8 = 64 \times 8 = 512$ . (Exam-standard cube — worth memorising to  $15^3$ .)
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## SOLUTION 4

Answer: **676**

1. Use  $(a - b)^2$ :  $(30 - 4)^2 = 900 - 240 + 16 = 676$ .
- 

## SOLUTION 5

Answer: **30**

1.  $30^2 = 900$ , so  $\sqrt{900} = 30$ . Anchor on the last digit and the nearest square of a multiple of 10.
- 

## SOLUTION 6

Answer: **2500**

1.  $50^2 = 2500$ .
- 

## SOLUTION 7

Answer: **121**

1. Use  $(a + b)^2$ :  $(10 + 1)^2 = 100 + 20 + 1 = 121$ .
- 

## SOLUTION 8

Answer: **15**

1.  $15^2 = 225$ , so  $\sqrt{225} = 15$ . Anchor on the last digit and the nearest square of a multiple of 10.
- 

## SOLUTION 9

Answer: **441**

1. Use  $(a + b)^2$ :  $(20 + 1)^2 = 400 + 40 + 1 = 441$ .
- 

## SOLUTION 10

Answer: **216**

1.  $6^3 = 6^2 \times 6 = 36 \times 6 = 216$ . (Exam-standard cube — worth memorising to  $15^3$ .)
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**SOLUTION 11**

Answer: **529**

1. Use  $(a + b)^2$ :  $(20 + 3)^2 = 400 + 120 + 9 = 529$ .
- 

**SOLUTION 12**

Answer: **11**

1.  $11^3 = 1331$ , so  $\sqrt[3]{1331} = 11$ . The last digit of a cube pins the root's last digit uniquely.
- 

**SOLUTION 13**

Answer: **144**

1. Use  $(a + b)^2$ :  $(10 + 2)^2 = 100 + 40 + 4 = 144$ .
- 

**SOLUTION 14**

Answer: **289**

1. Use  $(a - b)^2$ :  $(20 - 3)^2 = 400 - 120 + 9 = 289$ .
- 

**SOLUTION 15**

Answer: **25**

1.  $25^2 = 625$ , so  $\sqrt{625} = 25$ . Anchor on the last digit and the nearest square of a multiple of 10.
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## One round a day beats one set a month.

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