

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**.

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