

Worksheet: A Square and A Cube

Rajasthan State Board · Class 8 · Mathematics · 12 questions · 27 marks

Name: _____

Date: _____

Score: _____ / 27

Q1. What is 15^2 ? [1 mark]

Q2. What is 6^3 ? [1 mark]

Q3. Which of these numbers is a perfect square? [1 mark]

- A) 1024
- B) 1028
- C) 1033
- D) 1042

Q4. A number ending in which digit can NEVER be a perfect square? [1 mark]

- A) 4
- B) 6
- C) 8
- D) 9

Q5. Find 2304 using prime factorisation. [3 marks]

Q6. Find the cube root of 2197 by prime factorisation. [3 marks]

Q7. The smallest number by which 72 must be multiplied to make it a perfect square is: *[1 mark]*

- A) 2
- B) 3
- C) 6
- D) 8

Q8. Which of the following is a perfect cube? *[1 mark]*

- A) 124
- B) 128
- C) 144
- D) 216

Q9. Find 784 using prime factorisation. *[2 marks]*

Q10. Find the cube root of 3375 by prime factorisation. *[3 marks]*

Q11. Find the smallest number by which 392 must be MULTIPLIED to make it a perfect cube, and find the cube root of the resulting number. *[5 marks]*

Q12. Find the smallest number by which 2028 must be divided so that the quotient is a perfect square. Also find the square root of the quotient. *[5 marks]*
