Worksheet: A Square and A Cube

IGCSE · 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) 1028

B) 1042

C) 1033

D) 1024

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

A) 4

B) 8

C) 6

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) 8

B) 3

C) 2

D) 6

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

A) 124

B) 128

C) 216

D) 144

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]*