

Exponents, Roots and Operations

Question 1: Multiple Choice – select the correct answer from the options given:

- 1.1 Which answer represents the following: $10^5 = \underline{\hspace{1cm}}$
- a) 1 000 000 b) 10×5 c) $10 \times 10 \times 10 \times 10$ d) 10 000
- 1.2 Write the following as an exponent: $3 \times 3 \times 3$
- a) 3×5 b) 3^5 c) 243
- 1.3 Calculate the answer: $2^3 + 3^2 \times 4^1 = \underline{\hspace{1cm}}$
- a) 44 b) 30 c) 68 d) 12
- 1.4 What is the opposite or inverse operation for the following: $\sqrt[3]{8} =$
- a) $2^3 = 8$ b) $2 \times 2 \times 2$ c) $\sqrt[3]{8} = 2$ d) 2×8
- 1.5 Calculate the answer: $\sqrt{64} - \sqrt[3]{125} \div 5$
- a) 7 b) 8 c) 9 d) undefined
- 1.6 What is the product of the 4th cube number and the 3rd square number?
- a) 432 b) 73 c) 144 d) 576
- 1.7 Select the incorrect answer for $\sqrt{16}$
- a) $\sqrt{25}$ b) $\sqrt{16} + \sqrt{16}$ c) 5
- 1.8 A number is both a square and a cube root of 625. What is the number?
- a) 5^3 b) $\sqrt{5}$ c) 25 d) 50
- 1.9 What is the value of x : $4^x =$
- a) 3 b) 16 c) 8 d) 4
- 1.10 A square has a side length of 15 cm. Which one of the following represents the area of the square?
- a) 15cm^2 b) $15\text{cm} \times 4$ c) $(15)^2\text{cm}^2$ d) $15\text{cm} + 15\text{cm}$

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Ganesh Prasad



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