



3. What is the value of $\sqrt{\frac{1}{2^6} + \frac{1}{6^2}}$?
- A $\frac{1}{10}$ B $\frac{1}{9}$ C $\frac{1}{3}$ D $\frac{5}{24}$ E $\frac{7}{24}$

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3. D $\frac{1}{2^6} + \frac{1}{6^2} = \frac{3^2 + 2^4}{2^6 \times 3^2} = \frac{25}{2^6 \times 3^2} = \frac{5^2}{(2^3 \times 3)^2}$. Hence the answer is $\frac{5}{2^3 \times 3} = \frac{5}{24}$.