

**Aptitude :: Decimal Fraction**

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**Exercise : Decimal Fraction - General Questions**☐ Decimal Fraction - Formulas☒ Decimal Fraction - General Questions1. Evaluate :  $\frac{(2.39)^2 - (1.61)^2}{2.39 - 1.61}$ ☐ A 2☐ B 4☐ C 6☐ D 8**Answer:** Option **B****Explanation:**

$$\text{Given Expression} = \frac{a^2 - b^2}{a - b} = \frac{(a + b)(a - b)}{(a - b)} = (a + b) = (2.39 + 1.61) = 4.$$



2. What decimal of an hour is a second ?

☐ A .0025☐ B .0256☐ C .00027☐ D .000126**Answer:** Option **C****Explanation:**

$$\text{Required decimal} = \frac{1}{60 \times 60} = \frac{1}{3600} = .00027$$



3. The value of  $\frac{(0.96)^3 - (0.1)^3}{(0.96)^2 + 0.096 + (0.1)^2}$  is:

- Ⓐ 0.86
- Ⓑ 0.95
- Ⓒ 0.97
- Ⓓ 1.06

**Answer:** Option Ⓐ

**Explanation:**

$$\begin{aligned}
 \text{Given expression} &= \frac{(0.96)^3 - (0.1)^3}{(0.96)^2 + (0.96 \times 0.1) + (0.1)^2} \\
 &= \left[ \frac{a^3 - b^3}{a^2 + ab + b^2} \right] \\
 &= (a - b) \\
 &= (0.96 - 0.1) \\
 &= 0.86
 \end{aligned}$$



4. The value of  $\frac{0.1 \times 0.1 \times 0.1 + 0.02 \times 0.02 \times 0.02}{0.2 \times 0.2 \times 0.2 + 0.04 \times 0.04 \times 0.04}$  is:

- Ⓐ 0.0125
- Ⓑ 0.125
- Ⓒ 0.25
- Ⓓ 0.5

**Answer:** Option Ⓑ

**Explanation:**

$$\text{Given expression} = \frac{(0.1)^3 + (0.02)^3}{2^3 [(0.1)^3 + (0.02)^3]} = \frac{1}{8} = 0.125$$



5. If  $2994 \div 14.5 = 172$ , then  $29.94 \div 1.45 = ?$

- Ⓐ 0.172
- Ⓑ 1.72
- Ⓒ 17.2

Ⓓ 172

**Answer:** Option Ⓒ

**Explanation:**

$$\begin{aligned}\frac{29.94}{1.45} &= \frac{299.4}{14.5} \\ &= \left( \frac{2994}{14.5} \times \frac{1}{10} \right) \text{ [ Here, Substitute 172 in the place of } 2994/14.5 \text{ ]} \\ &= \frac{172}{10} \\ &= 17.2\end{aligned}$$



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