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#### **Exercise: Decimal Fraction - General Questions**

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- 1. Evaluate :  $\frac{(2.39)^2 (1.61)^2}{2.39 1.61}$ 
  - **(A)** 2
  - **B** 4
  - **©** 6
  - **①** 8

# Answer: Option (B)

### **Explanation:**

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
  - **©** .00027
  - **(1)** .000126

# Answer: Option ©

### **Explanation:**

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:
  - **(A)** 0.86
  - **B** 0.95
  - **©** 0.97
  - **1.06**

# Answer: Option (A)

## **Explanation:**

Given expression = 
$$\frac{(0.96)^3 - (0.1)^3}{(0.96)^2 + (0.96 \times 0.1) + (0.1)^2}$$
$$= \left(\frac{a^3 - b^3}{a^2 + ab + b^2}\right)$$
$$= (a - b)$$
$$= (0.96 - 0.1)$$
$$= 0.86$$









- 4. The value of  $\frac{0.1\times0.1\times0.1+0.02\times0.02\times0.02}{0.2\times0.2\times0.2+0.04\times0.04\times0.04} \text{ is:}$ 
  - **(A)** 0.0125
  - **B** 0.125
  - **(c)** 0.25
  - **(1)** 0.5

# Answer: Option (B)

## **Explanation:**

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  $29.94 \div 1.45 = ?$ 
  - **(A)** 0.172
  - **B** 1.72
  - **(c)** 17.2

**(1)** 172

Answer: Option ©

# **Explanation:**

$$\frac{29.94}{1.45} = \frac{299.4}{14.5}$$

$$= \left(\frac{2994}{14.5} \times \frac{1}{10}\right)$$
 [ Here, Substitute 172 in the place of 2994/14.5 ]

$$=\frac{172}{10}$$

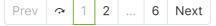
= 17.2













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