

即時重要演練題詳解

《十五》百分比

答 : (D)

解 : 設陳先生繼承遺產 x 元

$$\therefore x \cdot \frac{20}{100} + \left(\frac{80}{100}x\right) \cdot \frac{10}{100} = 10500$$

$$\therefore x \cdot \frac{7}{25} = 10500 \quad \therefore x = 10500 \times \frac{25}{7} = 37500$$

《十六》遞迴關係

答 : (A)

解 : 週期為 4

$$425 \div 4 = 106 \cdots 1$$

$$427 \div 4 = 106 \cdots 3$$

故答案為(A)

《十七》相似的探討

答 : (C)

解 : $\because \overline{AB} = 4, \overline{BC} = 3 \quad \therefore \overline{BD} = 5$

$$\textcircled{1} \triangle ABE \sim \triangle CBD \quad \therefore \frac{\overline{BE}}{4} = \frac{5}{3} \quad \therefore \overline{BE} = \frac{20}{3}$$

$$\textcircled{2} \triangle BCF \sim \triangle DCB \quad \therefore \frac{\overline{BF}}{3} = \frac{5}{4} \quad \therefore \overline{BF} = \frac{15}{4}$$

$$\therefore \overline{EF} = \overline{BE} + \overline{BF} = \frac{20}{3} + \frac{15}{4} = \frac{125}{12}$$

