

$$\textcircled{1} \quad P = 400$$

$$r = 1.9\% = 0.019$$

$$t = 4$$

$$A = P + Prt$$

$$= 400 + 400(0.019)(4)$$

$$= 430.40 \quad \text{D}$$

$$\textcircled{2} \quad P = 80$$

$$r = 2.3\% = 0.023$$

$$t = 4$$

$$\text{ROR?}$$

$$(i) \quad I = Prt$$

$$I = 80(0.023)(4)$$

$$I = 7.36$$

$$(ii) \quad \text{ROR} = \frac{I}{P} = \frac{7.36}{80}$$

$$= 0.092$$

$$= 9.2\% \quad \text{D}$$

$$\textcircled{3} \quad P = 4000$$

$$t = 9$$

$$A = 5476$$

$$r = ?$$

$$A = P + Prt$$

$$5476 = 4000 + 4000(r)(9)$$

$$\frac{1476}{36000} = \frac{36000r}{36000}$$

$$0.041 = r$$

$$4.1\% = r \quad \text{B}$$

$$\textcircled{4} \quad P = 600$$

$$r = 3.9\% = 0.039$$

$$A = 1302$$

$$t = ?$$

$$A = P + Prt$$

$$1302 = 600 + 600(0.039)t$$

$$\frac{702}{23.4} = \frac{23.4t}{23.4}$$

$$30 = t \quad \text{B}$$

$$\textcircled{5} \quad \text{B: } \rightarrow I = Prt$$

$$I = 800(0.05)(3)$$

$$I = 120$$

$$\text{A: } \rightarrow A = P \left(1 + \frac{r}{n}\right)^{nt}$$

$$A = 500 \left(1 + \frac{0.035}{1}\right)^{(1)(8)}$$

$$A = 500(1.035)^8$$

$$A \approx 658.40$$

$$I = A - P$$

$$I = 658.40 - 500$$

$$I = 158.40$$

$$\text{D} \rightarrow I = Prt$$

$$I = (500)(0.036)(8)$$

$$I = 144$$

$$\text{C: } \rightarrow A = 1000 \left(1 + \frac{0.0175}{1}\right)^{(1)(4)}$$

$$A = 1000(1.0175)^4$$

$$A = 1071.85$$

$$I = 1071.85 - 1000$$

$$I = 71.85$$

Option A

⑥ quarterly for 10 years:

$$4 \times 10 = 40 \quad \text{D}$$

⑦ $A = P \left(1 + \frac{r}{n}\right)^{nt}$

$$A = 16000 \left(1 + \frac{0.054}{12}\right)^{12(4.5)}$$

$$A = 16000 (1.0045)^{54}$$

$$A = 20\,389.98$$

$$I = A - P$$

$$I = 20\,389.98 - 16000$$
$$= 4389.98$$

A

①

Noor:

$$I = Prt$$

$$I = (6000)(0.06)(6)$$

$$I = 2160.00$$

Midori:

$$A = P\left(1 + \frac{r}{n}\right)^{nt}$$

$$I = A - P$$

$$A = 6000\left(1 + \frac{0.06}{1}\right)^{1(6)}$$

$$I = 8511.11 - 6000$$

$$A = 6000(1.06)^6$$

$$I = 2511.11$$

$$A = 8511.11$$