

1. > Here  $P = 30000$   
 $R = 7\%$   
 $I = 4247$

$$\text{Time} = \frac{100 \times 4247}{30000 \times 7} = 2.07$$

2. > The simple interest =  $\frac{4000 \times 2 \times 10}{100} = 800$

the sum of money =  $\frac{1}{5000} \times 800 \times 400$

$$\text{Sum of money} = \frac{100 \times 400 \times 200}{3 \times 842} = \frac{5000}{3} = 1650 \text{ rupee}$$

3. > There is 6 year, 12000 and 3 year interest

$$= \frac{12000 \times 3 \times 6}{100} = 2160$$

A) 2160 rupee

4. > D) cannot be determined

6.  $SP = 637$

$$CP = \frac{100}{100-9} \times 637$$

$$= \frac{100}{91} \times 637$$

$$= 700$$

$$\begin{array}{r} 91 \\ \times 7 \\ \hline 637 \end{array}$$

$$SP = \frac{100+5}{100} \times 700$$

$$= \frac{105}{100} \times 700$$

$$= 735$$

$$\begin{array}{r} 3 \\ 105 \\ \times 7 \\ \hline 735 \end{array}$$

7.  $CP = \frac{100}{100-20} \times 2500$

$$= \frac{100}{80} \times 2500$$

$$\begin{array}{r} 3 \\ 8 \overline{) 2500} \\ \underline{240} \\ 10 \end{array}$$

$$25 \times 125$$

$$CP = 3125$$

$$\begin{array}{r} 2 \overline{) 2500} \\ \underline{125} \\ 125 \\ \times 25 \\ \hline 3125 \end{array}$$

Profit:  $3150 - 3125 = 25$

$$\frac{25}{3125} \times 100\%$$

$$= 0.8\% \approx 20$$

$$\begin{array}{r} 1625 \\ 250 \times \end{array}$$

$$3125$$

$$5 \overline{) 3125}$$

$$\frac{100}{21} \quad \frac{105}{21} \quad \frac{20}{21}$$

$$2 \overline{) 20.0}$$

$$\begin{array}{r} 625 \\ 5 \overline{) 3125} \\ \underline{300} \\ 125 \\ \underline{105} \\ 20 \\ \underline{20} \\ 0 \end{array}$$