

MOTHERCARE PREPARATORY SCHOOLS
P.6 HOLIDAY WORK - WEEK 4
MATHEMATICS

Name: _____ Stream: _____

1. Find the simple interest on sh.200,000 for 3 years at 5% p.a.

$$\text{Simple interest} = P \times R \times T$$

$$\text{SI} = \text{sh. } \frac{200,000}{100} \times \frac{5}{100} \times 3$$

$$\text{SI} = \text{sh. } 2000 \times 15$$

$$\underline{\underline{\text{SI} = \text{sh. } 30,000}}$$

S.W

2000

X 15

10000

+ 20000

30,000

2. Cate borrowed sh. 160,000 for 9 months at a rate of 3 1/4 % p.a. find the interest Cate paid to the bank.

$$\text{Simple interest} = P \times R \times T$$

$$\text{SI} = \text{sh. } 160,000 \times \frac{13}{4} \div 100 \times \frac{9}{12}$$

$$\frac{400}{100}$$

$$\frac{1600}{100}$$

$$\text{SI} = \text{sh. } \frac{160,000}{100} \times \frac{13}{4} \div 1 \times \frac{9}{12}$$

$$\text{SI} = \text{sh. } 100 \times 13 \times 3$$

$$\text{SI} = \text{sh. } 1300 \times 3$$

$$\underline{\underline{\text{SI} = \text{sh. } 3,900}}$$

S.W

13 x 3

39

39 x 100

3900

- 3. Calculate the simple interest one gets on sh. 300,000 for 2 years at 7% per. Year.**

- 4. Find the simple interest on sh. 100,000 for 4 years at 6% p.a.**

- 5. Tom had to charge a friend who borrowed sh. 240,000 from him at a rate of $1\frac{1}{2}\%$ for 3years. How much interest did he get?**

6. Find the rate sh. 40,000 will amount to sh.40,900 in 3 years.

From the formula;

$$\text{Interest} = P \times R \times T$$

$$\text{Rate} = \frac{\text{Interest} \times 100}{\text{Principal} \times \text{Time}}$$

$$\text{Rate} = \frac{(\text{sh. } 40,900 - \text{sh. } 40,000) \times 100}{\text{sh. } 40,000 \times 3}$$

$$\text{Rate} = \frac{\text{sh. } 900 \times 100}{\text{sh. } 40,000 \times 3}$$

$$\text{Rate} = \frac{\text{sh. } 300}{400} \times \frac{100}{3}$$

$$\text{Rate} = \frac{3}{4} \%$$

7. What sum will yield sh. 48,000 in 4 years at 3% p.a?

$$\text{Time} = 4\text{yrs}$$

$$\text{Rate} = 3\%$$

$$\text{Interest} = \text{sh. } 48,000$$

$$\text{Principal} = ?$$

$$\text{From; SI} = P \times R \times T$$

$$\text{sh. } 48000 = P \times \frac{3}{100} \times 4$$

$$100 \times \text{sh. } 48000 = 12P \times 100$$

$$100 \times 48000 = 12P$$

$$\text{sh. } 4800000 = 12P$$

$$\frac{4800000}{12} = P$$

$$\text{sh. } 400000 = P$$

$$\text{sh. } 400,000 = P$$

$$\underline{\underline{\text{Sh. } 400,000 = P}}$$

8. Find the rate at which sh. 700 will yield sh.105 in $2\frac{1}{2}$ years.

9. What sum of money will yield sh. 5400 interest in 2 years at 3% p.a?

10. In what time will sh. 50,000 amount to sh. 54,000 at 5% p.a?
11. Topista deposited sh. 300,000 in a bank which later amounted to sh. 420,000 in 18 months. What was the bank rate?
12. Rose put a certain amount of money in a bank which yielded sh. 200,000 in $2\frac{1}{2}$ years at 8% p.a. How much money did she deposit at the bank?

END