

# Simple Interest Problems

Name: \_\_\_\_\_ Score: \_\_\_\_\_

Solve the following simple interest problems and show your workings.

1. Danny kept 100,000 Yen in a saving account at a simple interest rate of 11% per year . How much interest will he get after 10 years ?



2. Ferry lent 1,000 dollars to a friend for 2 years at a simple interest rate of 7% p.a. How much was repaid after 2 those 2 years?
3. Jacky put 9,000 dollars in an account that pays her a yearly 3% simple interest. What will be the total balance of her account after 7 years?
4. John paid \$2,300 to repay a loan given to him at a 3% simple interest rate for 5 years. How much money did he borrow initially?
5. If you put \$2,000 in an account at an annual simple interest rate of 5%, how long will it take your balance to grow to \$2,600?
6. Jenny deposited \$3,000 in her account. After 4 years her account balance was \$4,800. What was the simple interest rate of her account?

# Answers

Solve the following simple interest problems and show your workings.

1. Danny kept 100,000 Yen in a saving account at a simple interest rate of 11% per year . How much interest will he get after 10 years ?

$$100,000 \times 0.11 \times 10 = 110,000 \text{ Yen}$$



2. Ferry lent 1,000 dollars to a friend for 2 years at a simple interest rate of 7% p.a. How much was repaid after 2 those 2 years?

$$1,000 + (1,000 \times 0.07 \times 2) = 1,140 \text{ dollars}$$

3. Jacky put 9,000 dollars in an account that pays her a yearly 3% simple interest. What will be the total balance of her account after 7 years?

$$9,000 + (9,000 \times 0.03 \times 7) = 10,890 \text{ dollars}$$

4. John paid \$2,300 to repay a loan given to him at a 3% simple interest rate for 5 years. How much money did he borrow initially?

$$P + (P \times 0.03 \times 5) = 2,300 \quad 1.15P = 2,300 \quad \text{Principal} = \$2,000$$

5. If you put \$2,000 in an account at an annual simple interest rate of 5%, how long will it take your balance to grow to \$2,600?

$$2,000 + (2,000 \times 0.05 \times Y) = 2,600 \text{ leads to } 100Y = 600, Y = 6 \text{ years}$$

6. Jenny deposited \$3,000 in her account. After 4 years her account balance was \$4,800. What was the simple interest rate of her account?

$$3,000 + (3,000 \times i \times 4) = 4,800 \text{ leads to } 12,000i = 1,800, i = 15\%$$