

Simple Interest Worksheet

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Part 1: Foundational Knowledge

What is the formula for calculating simple interest?

Hint: Think about the basic formula involving principal, rate, and time.

 \bigcirc A) SI = \frac{P \times R \times T}{100}

 \bigcirc B) SI = P \times (1 + R)^ T

 \bigcirc C) SI = P \times R \times T

 \bigcirc D) SI = \frac{P + R + T}{100}

What is the formula for calculating simple interest?

Hint: Recall the formula used for simple interest.

() A) SI = (P × R × T) / 100 () B) SI = P × (1 + R)^T () C) SI = P × R × T () D) SI = (P + R + T) / 100

Which of the following are components needed to calculate simple interest? (Select all that apply)

Hint: Consider the elements that are essential for the calculation.

- A) Principal (P)
- B) Rate of Interest (R)
- C) Time Period (T)
- D) Inflation Rate

Which of the following are components needed to calculate simple interest? (Select all that apply)

Hint: Think about the elements involved in the calculation.

A) Principal (P)

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C) Time Period (T)
D) Inflation Rate

Explain in your own words what simple interest is and how it differs from compound interest.

Hint: Consider the definitions and calculations of both types of interest.

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List the three main variables used in the simple interest formula and provide a brief description of each.

Hint: Think about what each variable represents in the context of the formula.

1. Principal (P)

2. Rate of Interest (R)

3. Time Period (T)

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Part 2: comprehension

If the principal amount is \$1,000, the rate of interest is 5% per annum, and the time is 3 years, what is the simple interest?

Hint: Use the simple interest formula to calculate the answer.

○ A) \$150

OB) \$300

○ C) \$500

OD) \$600

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Hint: Use the simple interest formula to calculate.

○ A) \$150

OB) \$300

O C) \$500

OD) \$600

Which statements are true about simple interest? (Select all that apply)

Hint: Consider the characteristics of simple interest.

- A) It is calculated on the original principal only.
- B) It increases exponentially over time.
- C) It is commonly used in savings accounts.
- D) It results in the same interest amount each year.

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Describe a real-world scenario where simple interest might be more beneficial than compound interest.

Hint: Think about situations involving loans or investments.

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Describe a real-world scenario where simple interest might be more beneficial than compound interest.

Hint: Think about situations where simplicity is key.

Part 3: Application

John invests \$2,000 at a simple interest rate of 4% per annum for 5 years. What will be the total amount he receives at the end of the investment period?

Hint: Calculate the simple interest first and then add it to the principal.

○ A) \$2,400

OB) \$2,800

○ C) \$3,000

OD) \$3,200

John invests \$2,000 at a simple interest rate of 4% per annum for 5 years. What will be the total amount he receives at the end of the investment period?

Hint: Calculate the total amount using the simple interest formula.

○ A) \$2,400

- OB) \$2,800
- C) \$3,000
- O D) \$3,200

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Which of the following scenarios involve the use of simple interest? (Select all that apply)

Hint: Think about different types of financial products.

- A) A fixed deposit in a bank
- B) A car loan with a fixed interest rate
- C) A savings account with annual compounding
- D) A government bond with a fixed interest rate

Which of the following scenarios involve the use of simple interest? (Select all that apply)

Hint: Think about different types of loans and investments.

- A) A fixed deposit in a bank
- B) A car loan with a fixed interest rate
- C) A savings account with annual compounding
- D) A government bond with a fixed interest rate

Calculate the simple interest earned on a loan of \$5,000 at an interest rate of 6% per annum over 4 years.

Hint: Use the simple interest formula to find the answer.

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Part 4: Analysis

Analyze the following statements and identify which are correct regarding the relationship between principal, rate, and time in simple interest. (Select all that apply)

Hint: Think about how changes in one variable affect the others.

- A) Doubling the principal doubles the simple interest.
- B) Halving the rate of interest halves the simple interest.
- C) Increasing the time period decreases the simple interest.
- D) The simple interest is directly proportional to the time period.

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Hint: Think about how changes in one variable affect the others.

- A) Doubling the principal doubles the simple interest.
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- C) Increasing the time period decreases the simple interest.
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Compare and contrast the impact of increasing the interest rate versus increasing the time period on the total simple interest earned.

Hint: Consider how each change affects the overall interest calculation.

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Hint: Consider how each factor influences the final amount.

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Part 5: Evaluation and Creation

Which scenario would result in the highest simple interest earned over 5 years?

Hint: Calculate the interest for each option to find the highest.

○ A) \$1,000 at 5% per annum

- B) \$1,500 at 4% per annum
- C) \$2,000 at 3% per annum
- O D) \$2,500 at 2% per annum

Which scenario would result in the highest simple interest earned over 5 years?

Hint: Calculate the interest for each option to compare.

○ A) \$1,000 at 5% per annum

- B) \$1,500 at 4% per annum
- C) \$2,000 at 3% per annum
- O D) \$2,500 at 2% per annum

Evaluate the following investment options and select which ones are likely to yield the highest total amount after 10 years. (Select all that apply)

Hint: Consider the principal and interest rates for each option.

A) \$5,000 at 3% simple interest

- □ B) \$4,000 at 4% simple interest
- C) \$3,000 at 5% simple interest
- D) \$2,000 at 6% simple interest

Evaluate the following investment options and select which ones are likely to yield the highest total amount after 10 years. (Select all that apply)

Hint: Consider the interest rates and principal amounts.

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- A) \$5,000 at 3% simple interest
- □ B) \$4,000 at 4% simple interest
- C) \$3,000 at 5% simple interest
- D) \$2,000 at 6% simple interest

Design a simple interest investment plan for a client who wants to invest \$10,000 for 7 years. Explain your choice of interest rate and how it meets the client's financial goals.

Hint: Consider the client's needs and the current market rates.

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