


INTERESTS


A DEFINITIONS

A.1 FINDING THE INTEREST

Ex 1:  Louis lends Hugo \$100. After one year, Hugo repays Louis \$110.


Find the interest paid.

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Ex 2:  Maria borrows \$200 from John. After one year, Maria repays John \$230.


Find the interest paid.

\$

Ex 3:  Jack lends Sarah \$500. After one year, Sarah repays Jack \$525.

Find the interest paid.


\$

Ex 4:  A bank lends \$1 000 to a customer. After one year, the customer repays the bank \$1 080.

Find the interest paid.


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A.2 FINDING THE TOTAL AMOUNT


Ex 5:  A customer borrows \$2 500 from a bank, with \$150 of interest.

Find the total amount the customer needs to repay the bank.


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Ex 6:  Maria borrows \$300 from John with \$30 of interest. Find the amount Maria needs to repay.

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Ex 7:  Jack lends Sarah \$500 with \$50 of interest. Find the total amount Sarah needs to repay Jack.

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Ex 8:  A bank lends \$1 000 to a customer with \$80 of interest. Find the total amount the customer needs to repay the bank.

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A.3 FINDING THE PRINCIPAL

Ex 9:  Emma repaid \$330 in total, including \$30 of interest. Find the original amount (principal) that Emma borrowed.


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Ex 10:  Lucas repaid \$550 in total, including \$50 of interest. Find the original amount (principal) that Lucas borrowed.

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Ex 11:  Sophia repaid \$1 080 in total, including \$80 of interest. Find the original amount (principal) that Sophia borrowed.

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Ex 12:  Mia repaid \$750 in total, including \$150 of interest. Find the original amount (principal) that Mia borrowed.


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B SIMPLE INTEREST


B.1 FINDING THE INTEREST

Ex 13:  Find the simple interest on a principal of \$500 at a rate of 3% per year over 5 years.


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Ex 14:  Find the simple interest on a principal of \$1 000 at a rate of 4% per year over 3 years.

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Ex 15:  Find the simple interest on a principal of \$750 at a rate of 5% per year over 2 years.

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Ex 16:  Find the simple interest on a principal of \$1 200 at a rate of 6% per year over 4 years.

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B.2 FINDING THE INTEREST OVER MIXED TIME PERIODS



Ex 17: Find the simple interest on a principal of \$600 at a rate of 4% per year over 18 months.

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Ex 18: Find the simple interest on a principal of \$700 at a rate of 5% per year over 180 days.

\$ (round at two decimal places)



Ex 19: Find the simple interest on a principal of \$800 at a rate of 4% per year over 9 months.

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Ex 20: Find the simple interest on a principal of \$1 200 at a rate of 4% per year over 2 years and 6 months.

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B.3 FINDING THE TOTAL AMOUNT



Ex 21: Jack lends Sarah \$500 with simple interest over 3 years at a rate of 3% per year.
Find the total amount Sarah needs to repay Jack.

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Ex 22: Emma borrows \$600 from a bank with simple interest over 4 years at a rate of 2.5% per year.
Find the total amount Emma needs to repay the bank.

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Ex 23: Michael lends \$800 to a friend with simple interest over 2 years at a rate of 4% per year.
Find the total amount the friend needs to repay Michael.

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Ex 24: Sophia borrows \$1 200 with simple interest over 5 years at a rate of 2.5% per year.
Find the total amount Sophia needs to repay.

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