INTERESTS

A DEFINITIONS

A.1 FINDING THE INTEREST

Ex 1: Louis lends Hugo 100 dollars. After one year, Hugo repays Louis 110 dollars.
Find the interest paid.

☐ dollars

Ex 2: Maria borrows 200 dollars from John. After one year, Maria repays John 230 dollars.
Find the interest paid.

☐ dollars

Ex 3: Jack lends Sarah 500 dollars. After one year, Sarah repays Jack 525 dollars.
Find the interest paid.

☐ dollars

Ex 4: A bank lends 1 000 dollars to a customer. After one year, the customer repays the bank 1 080 dollars.
Find the interest paid.

☐ dollars

A.2 FINDING THE TOTAL AMOUNT

Ex 5: A customer borrows 2 500 dollars from a bank, with 150 dollars of interest.
Find the total amount the customer needs to repay the bank.

☐ dollars

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

☐ dollars

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

☐ dollars

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

☐ dollars

A.3 FINDING THE PRINCIPAL

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

☐ dollars

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

☐ dollars

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

☐ dollars

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

☐ dollars

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 (you can use a calculator).

☐ dollars

Ex 14: Find the simple interest on a principal of $1 000 at a rate of 4% per year over 3 years (you can use a calculator).

☐ dollars

Ex 15: Find the simple interest on a principal of $750 at a rate of 5% per year over 2 years (you can use a calculator).

☐ dollars

Ex 16: Find the simple interest on a principal of $1 200 at a rate of 6% per year over 4 years (you can use a calculator).

☐ dollars

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 (you can use a calculator).

☐ dollars

Ex 18: Find the simple interest on a principal of $700 at a rate of 5% per year over 180 days (you can use a calculator).

[   ] dollars (round at two decimal place)

Ex 19: Find the simple interest on a principal of $800 at a rate of 4% per year over 9 months (you can use a calculator).

[   ] dollars

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 (you can use a calculator).

[   ] dollars

B.3 FINDING THE TOTAL AMOUNT

Ex 21: Jack lends Sarah 500 dollars with simple interest over 3 years at a rate of 3% per year.
Find the total amount Sarah needs to repay Jack (you can use a calculator).

[   ] dollars

Ex 22: Emma borrows 600 dollars 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 (you can use a calculator).

[   ] dollars

Ex 23: Michael lends 800 dollars 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 (you can use a calculator).

[   ] dollars

Ex 24: Sophia borrows 1 200 dollars with simple interest over 5 years at a rate of 2.5% per year.
Find the total amount Sophia needs to repay (you can use a calculator).

[   ] dollars