

# Grade 9 EQAO Sample Question for Families

Please see below a EQAO digital math question and answer that you can work on with your child.

## Question

Joelle wants to purchase a laptop for \$500. She compares two financing options.

**Option A:** 10% down payment and a monthly payment of \$20.63 for 2 years.

**Option B:** 0% down payment and a monthly payment of \$15.56 for 3 years.

Which statement is correct?

- A) Option A costs \$5.07 less than Option B
- B) Option B costs \$5.07 less than Option A
- C) Option A costs \$15.04 less than Option B
- D) Option B costs \$15.04 less than Option B



## Correct Answer

Joelle wants to purchase a laptop for \$500. She compares two financing options.

**Option A:** 10% down payment and a monthly payment of \$20.63 for 2 years.

**Option B:** 0% down payment and a monthly payment of \$15.56 for 3 years.

Which statement is correct?

- A) Option A costs \$5.07 less than Option B
- B) Option B costs \$5.07 less than Option A
- Correct Answer: C) Option A costs \$15.04 less than Option B**
- D) Option B costs \$15.04 less than Option B

### Helpful tips:

- Have a discussion about key vocabulary, including financing, down payments, and monthly payments. It is helpful to contextualize these in other real-life examples.
- When calculating a down payment, students need to understand percent of a whole (for example, 10% of \$500 = \$50). When calculating monthly payments, the length of the term matters (2 years = 24 months, 3 years = 36 months). Students multiply the monthly payment by the total number of months, remembering that the same amount is paid each month (Option A:  $24 \times \$20.63$ , Option B:  $36 \times \$15.56$ ). Adding the monthly payments and the down payment (if any) gives the total cost for each option. The answer choices show the difference in price between the two options
- Ask questions to have students think about these concepts deeply:
  - *Why does increasing the length of the borrowing time increase the total cost of an item? Why does option B cost more even though the monthly payment is less?*
  - *What are other variables that effect the overall cost of item? (e.g., (interest rate, length of borrowing time, the amount of the down payment).*