Percentages – 2021 O Level Math D

1. Nov/2021/Paper_11/No.3

Work out 45% of 30.

..... [2]

2. Nov/2021/Paper_12/No.15

During one year the value of a bicycle decreased from \$200 to \$160.

Calculate the percentage decrease in the value of the bicycle.

..... % [2]

3. June/2021/Paper_12/No.17

In a sale, the price of a coat is reduced by 25%.
The sale price is $120.

Calculate the price of the coat before the sale.

$ ..... [2]

4. June/2021/Paper_21/No.1

In 2019 Nicole's annual income was $22 000.

(a) She spent $7200 on accommodation in 2019.

Calculate the percentage of her income she spent on accommodation.

..... % [2]

(b) Her annual income of $22 000 increased by 4% in 2020.

Calculate her annual income in 2020.

$ ..... [2]

(c) Nicole invests $2000 in an account.
The account pays compound interest at a rate of K% per year.
At the end of the first year, the money in the account is $2036.

(i) Show that $K = 1.8$.

[2]

(ii) Find the number of complete years before Nicole has at least \$2150 in the account. Show your working.

..... years [3]

5. June/2021/Paper_22/No.1

(a) The price of an electric drill is $78.
In a sale, the price is reduced by 15%.

Calculate the sale price.

$ ..... [2]

(b) The exchange rate between dollars ($) and euros (€) is $1 = €0.85.
Michael changes $100 to euros.
He buys a clock costing €58.99.
He changes the remaining money back to dollars.

Calculate the amount, in dollars, he has left.

$ ..... [2]

(c)

ACE SIMPLE	COOL COMPOUND
Simple interest at 2.1% per year	Compound interest at 2% per year

Pietro invests $3500 in the Ace Simple account for 4 years.
Eliana invests $3500 in the Cool Compound account for 4 years.

At the end of the 4 years, who has more money in their account and by how much?

..... by $ ..... [4]