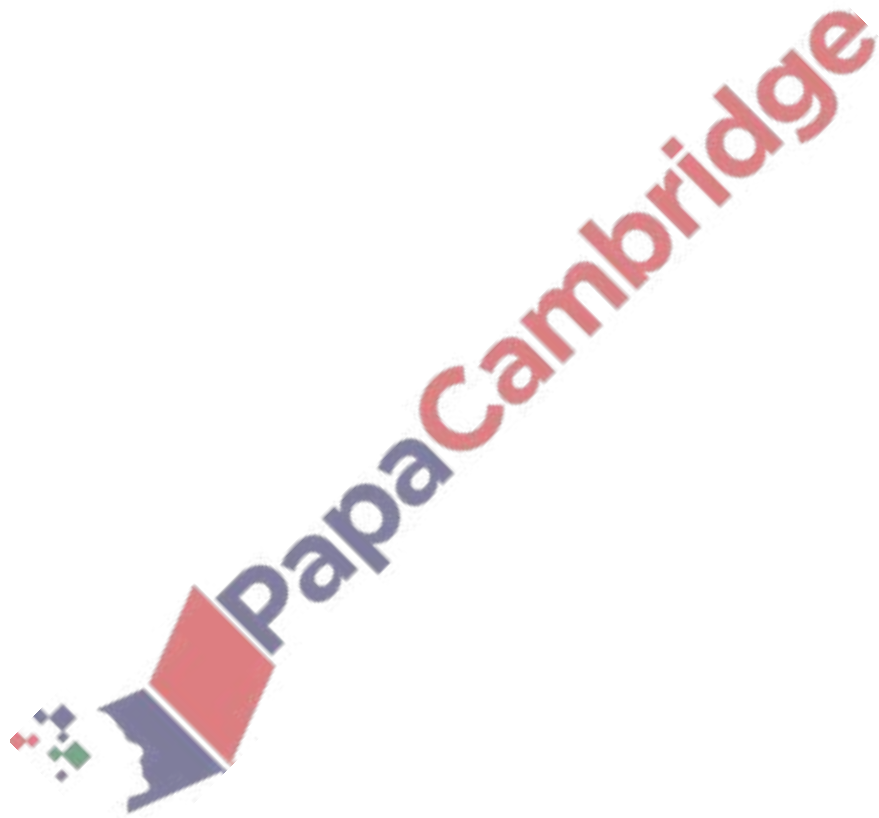


**Percentages – 2021 O Level Math D**

1. **Nov/2021/Paper\_11/No.3**

Work out 45% of 30.

..... [2]

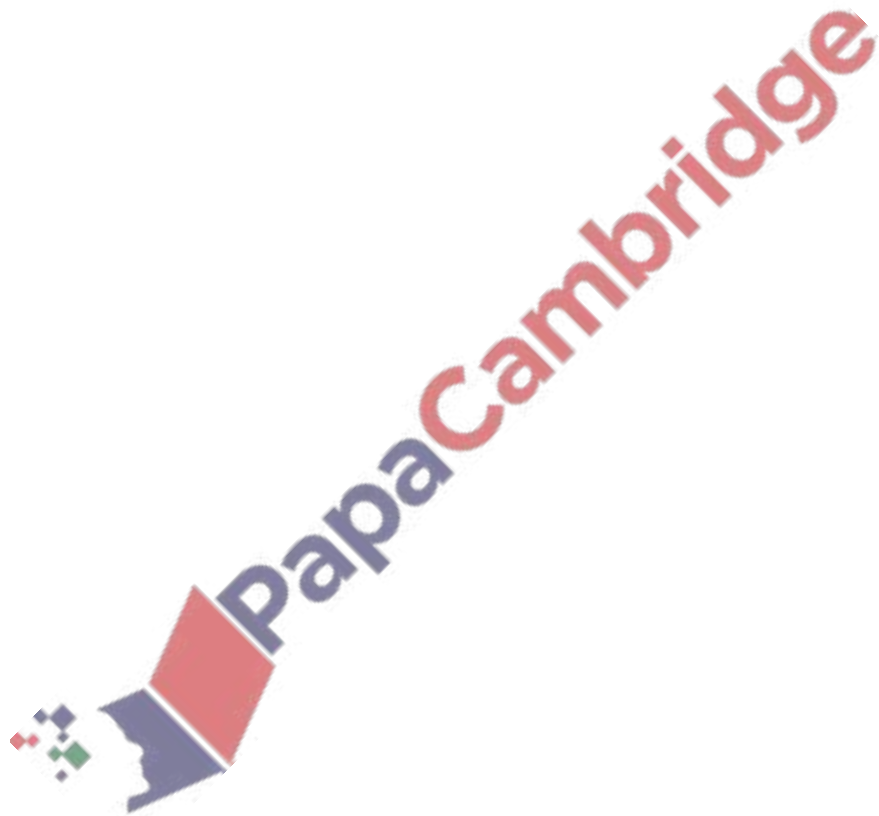


2. Nov/2021/Paper\_12/No.15

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

Calculate the percentage decrease in the value of the bicycle.

..... % [2]

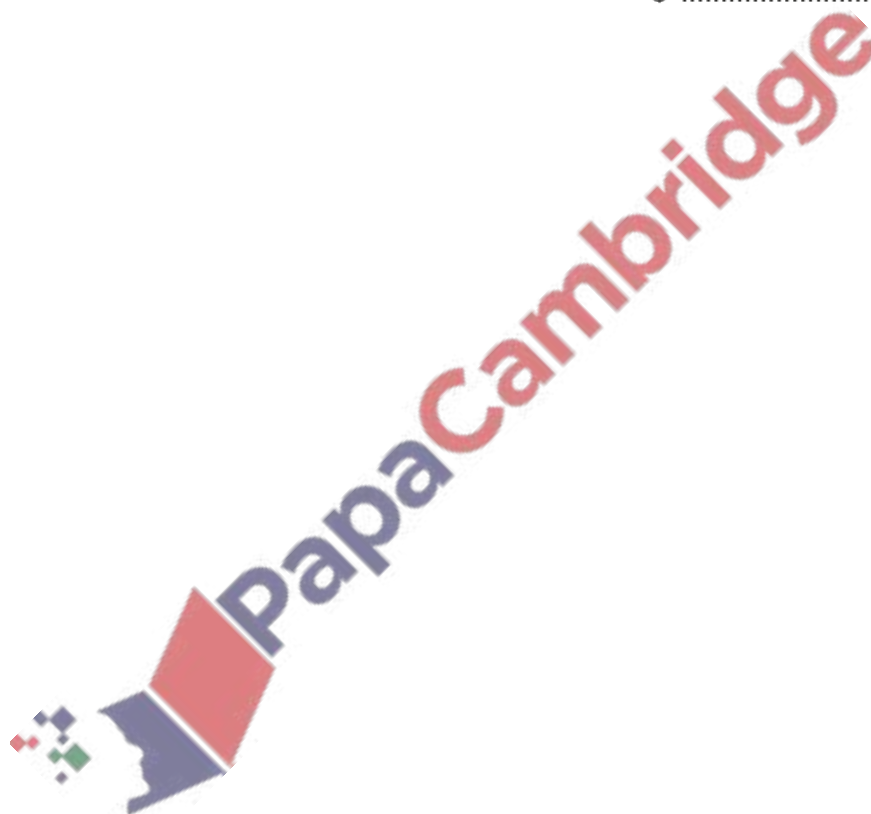


3. June/2021/Paper\_12/No.17

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]



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.

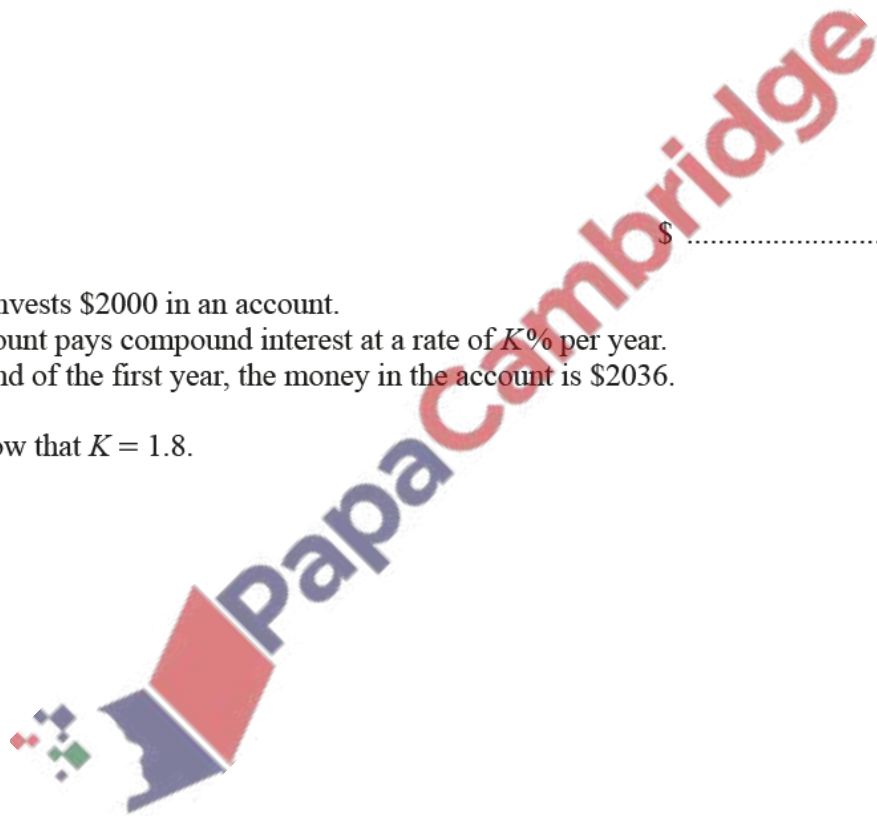
Calculate her annual income in 2020.

\$ ..... [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.

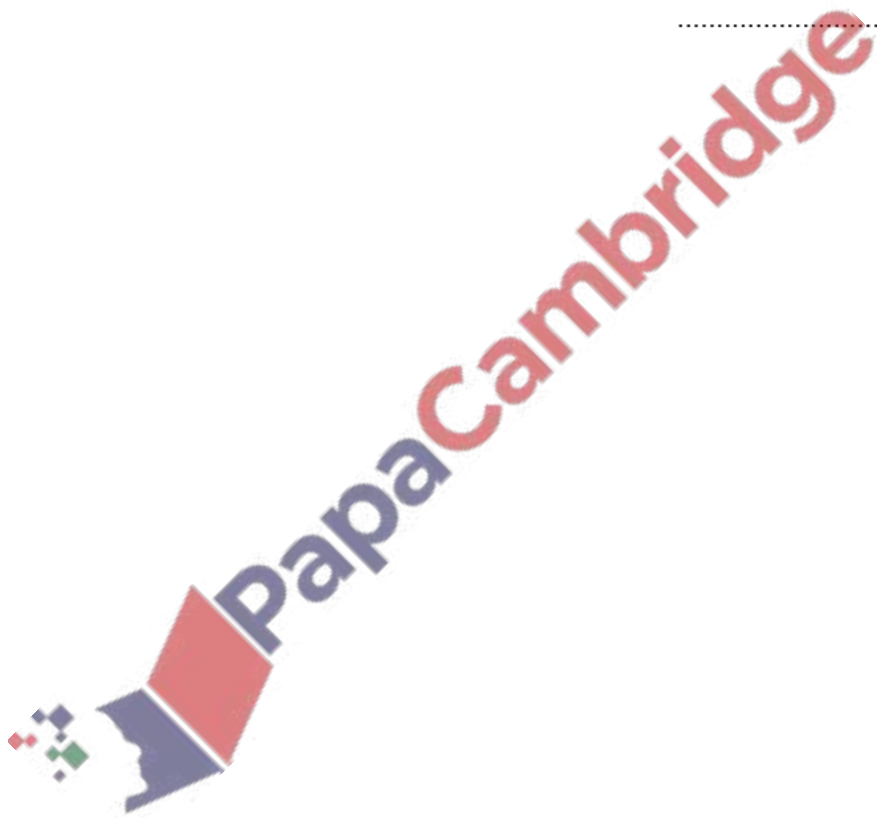
- (i) Show that  $K = 1.8$ .



[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

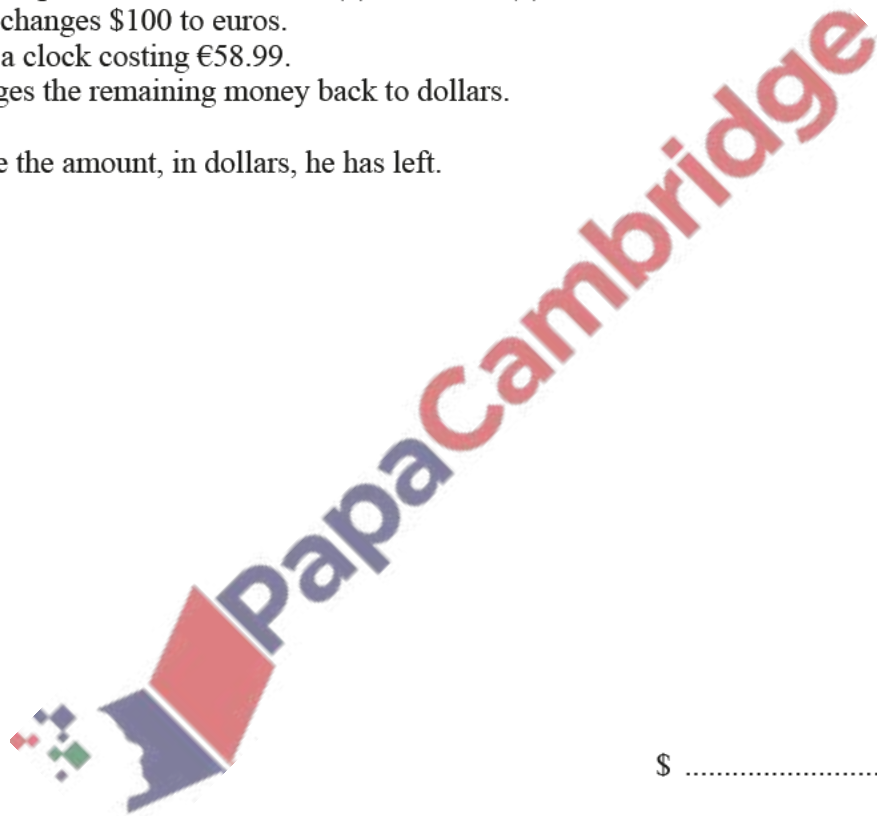
- (a) The price of an electric drill is \$78.  
In a sale, the price is reduced by 15%.

Calculate the sale price.

\$ ..... [2]

- (b) The exchange rate between dollars (\$) and euros (€) is  $\$1 = \text{€}0.85$ .  
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

Simple interest at  
2.1% per year

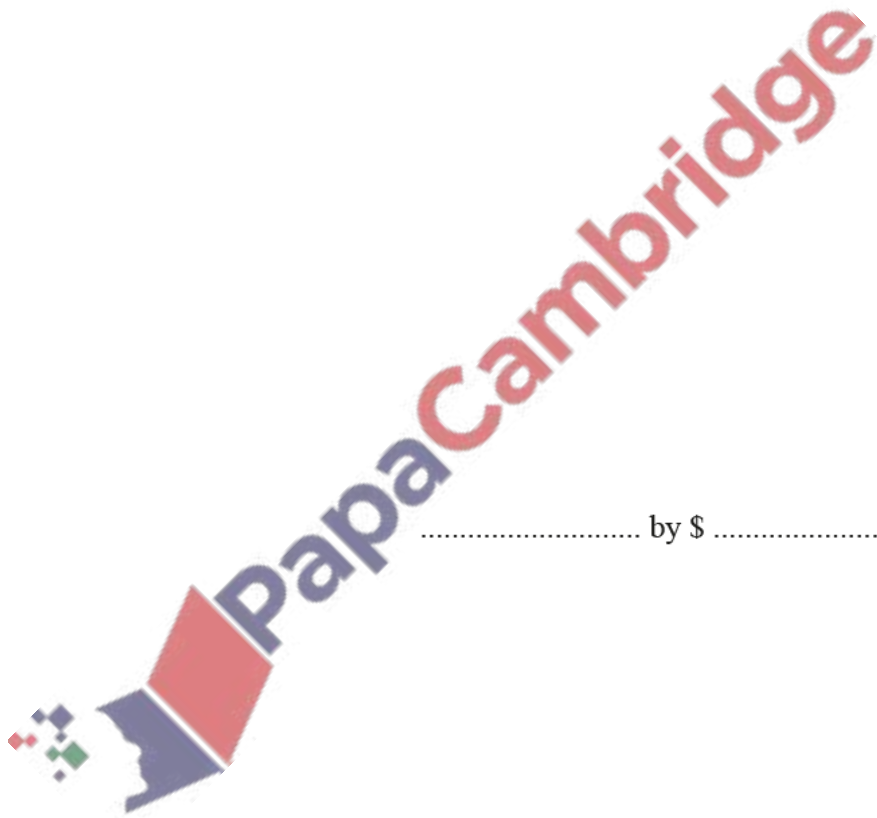
COOL COMPOUND

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]