



# Compound/Simple Interest

SCAN ME

REVISE THIS TOPIC

CHECK YOUR ANSWERS



1 Jamal invests £500 for 3 years in an account paying 4% simple interest.

Work out the value of Jamal's investment at the end of 3 years.

£ .....

(Total for Question 1 is 3 marks)

2 Carmen invests £800 for 2 years in an account paying 3% compound interest.

Work out the value of Carmen's investment at the end of 2 years.

£ .....

(Total for Question 2 is 3 marks)

3 Niko invests £1250 for 4 years in an account paying 6% simple interest.

Work out the value of Niko's investment at the end of 4 years.



1

£ .....

(Total for Question 3 is 3 marks)

4 Dimitri invests £7000 for 3 years in an account paying 5.5% compound interest.

Work out the value of Dimitri's investment at the end of 3 years.

£.....

**(Total for Question 4 is 3 marks)**

5 Layla invests £620 for 3 years in an account paying 2% simple interest.

Work out the value of Layla's investment at the end of 3 years.

£.....

**(Total for Question 5 is 3 marks)**

6 Aiden invests £1100 for 6 years in an account paying 1.2% compound interest.

Work out the value of Aiden's investment at the end of 6 years.



1st

2

£.....  
**(Total for Question 6 is 3 marks)**



7 Elijah invests £4200 for 4 years in an account paying compound interest.

In the first year, the rate of interest is 5%

In all other years, the rate of interest is 2%

Work out the value of Elijah's investment at the end of 4 years.

£ .....

**(Total for Question 7 is 3 marks)**

8 Esme invests £880 for 3 years in an account paying compound interest.

In the first year, the rate of interest is 4%

In all other years, the rate of interest is 1.5%

Work out the value of Esme's investment at the end of 3 years.

£ .....

**(Total for Question 8 is 3 marks)**



9 Freya wants to invest £6000 for 3 years.

**Bank A**

5% simple interest  
per year

**Bank B**

4% compound  
interest per year

Work out how much more Freya's investment would be worth at the end of the 3 years if she uses Bank A compared to Bank B.

£ .....

(Total for Question 9 is 5 marks)



10 Luca wants to invest £780 for 4 years.

**Bank A**

4% compound  
interest per year

**Bank B**

Year 1:  
7% compound interest  
  
All other years:  
3% compound interest

Work out which bank will give Luca the greater investment.

You must show your working.

.....  
**(Total for Question 10 is 4 marks)**



11 A brand new car is worth £30000

The value of the car decreases at a rate of 15% per year.

Work out the value of the car when it is 3 years old.

£.....

**(Total for Question 11 is 3 marks)**

12 The population of a city in 2025 is 340,000

The population is set to increase at a rate of 2% per year.

Work out the population of the city in the year 2029.

.....  
**(Total for Question 12 is 3 marks)**

13 A YouTuber has 30,000 subscribers in January 2025.

The number of subscribers increases by 7.5% per month.

Work out how many subscribers the YouTuber will have in July 2025.



.....  
**(Total for Question 13 is 3 marks)**



14 In 2025, a forest covers an area of 12,000 hectares.

Due to deforestation, the area of the forest decreases by 4% each year.

Work out the area of the forest in 2030.

Give your answer to the nearest hectare.

..... hectares

**(Total for Question 14 is 3 marks)**

15 A plant is measured at 45 cm tall in the spring.

It grows by 6% each week during the summer months.

Work out the height of the plant, to the nearest cm, after 10 weeks.

..... cm

**(Total for Question 15 is 3 marks)**

16 A scientist places a sample of 80,000 bacteria in a dish.

Each hour, the number of bacteria decreases by 18%.

Work out how many bacteria remain in the dish after 5 hours.

..... bacteria

**(Total for Question 16 is 3 marks)**



17 Isaac invests £550 for 4 years in an account paying 3.3% compound interest.

Work out how much interest Isaac made at the end of the 4 years.

£.....

**(Total for Question 17 is 3 marks)**

18 Grace invests £250 in an account paying 4% compound interest.

Grace withdraws the money once it has made over £100 in interest.

Work out how many years Grace must wait before withdrawing the money.

.....

**(Total for Question 18 is 3 marks)**

19 Mariam invests some money in an account paying 9% compound interest.

Work out how many years it will take for the investment to triple in value.



**20** Aaliyah invests some money in an account paying 4% compound interest.

After 2 years the investment is worth £8869.12

(a) Work out how much the investment was worth after 1 year.

£ .....  
(3)

(b) Work out how much the investment will be worth after 4 years.

£ .....  
(3)

**(Total for Question 20 is 6 marks)**

**21** Rajesh invests some money for 5 years in an account paying 4.9% compound interest.

After 5 years the investment is worth £2769.07

Work out how much money Rajesh originally invested.



£ .....  
**(Total for Question 21 is 3 marks)**



22 Leo invests £3200 for 2 years in an account paying compound interest.

After 2 years the investment is worth £3494.48

Work out the rate of interest.

.....%

**(Total for Question 22 is 4 marks)**

23 Lucia invests £640 for 4 years in an account paying compound interest.

After 3 years the investment is worth £689.21

Work out the value of Lucia's investment at the end of 4 years.

£.....

**(Total for Question 23 is 5 marks)**



10

