



Compound/Simple Interest



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.

£
(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.

£

(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.

.....

(Total for Question 19 is 3 marks)



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)

