1	Jane bought a new car for \$18000
	The car depreciates in value by 15% each year.
	Work out the value of the car at the end of 4 years. Give your answer correct to the nearest \$
	\$
	(Total for Question 1 is 3 marks)
	· · · · · · · · · · · · · · · · · · ·
2	Hiran invests 20 000 rupees in an account for 3 years at 1.5% per year compound interest.
	Work out the total amount of money in the account at the end of 3 years.
	Give your answer to the nearest rupee.
	rupees

3	Pasha invests 50 000 dollars in a savings account for 4 years. He gets 1.3% per year compound interest.	
	Work out how much money Pasha will have in his savings account at the end of 4 years. Give your answer correct to the nearest dollar.	
	(Total for Question 3 is 3 marks)	dollars
4	Kuro invests 50 000 yen for 3 years in a savings account. She gets 2.4% per year compound interest.	
	Work out how much money Kuro will have in her savings account at the end of the 3 years. Give your answer correct to the nearest yen.	
		yen
	(Total for Question 4 is 3 marks)	

5	Shane invests 7200 dollars for 3 years in a savings account. He gets 2.5% per year compound interest.	
	How much money will Shane have in his savings account at the end of 3 Give your answer to the nearest dollar.	years?
		dollars
	(Total for Ques	stion 5 is 3 marks)
6		stion 5 is 3 marks)
6	6 On 1st January 2016 Li bought a boat for \$170 000	stion 5 is 3 marks)
6	On 1st January 2016 Li bought a boat for \$170 000 The value of the boat depreciates by 8% per year. Work out the value of the boat on 1st January 2019	stion 5 is 3 marks)
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6	On 1st January 2016 Li bought a boat for \$170 000 The value of the boat depreciates by 8% per year. Work out the value of the boat on 1st January 2019	stion 5 is 3 marks)

7	Katy invests £200 000 in a savings account for 4 years. The account pays compound interest at a rate of 1.5 % per annum.	
	Calculate the total amount of interest Katy will get at the end of 4 years.	
	£	
	£(Total for Question 7 is 3 marks)	
_		

8	Ella invests £7000 for 2 years in an account paying compound interest.
	In the first year, the rate of interest is 3% In the second year, the rate of interest is 1.5%
	Work out the value of Ella's investment at the end of 2 years.
	· · · · · · · · · · · · · · · · · · ·
	£
	(Total for Question 8 is 3 marks)
	,

0	Torio huve a lantar		
9	Tariq buys a laptop.		
	He gets a discount of 5% off the normal price. Tariq pays £551 for the laptop.		
	(a) Work out the normal price of the laptop.		
		£	(2)
	Joan invests £6000 in a savings account.		\ <i>1</i>
	The savings account pays compound interest at a rate of		
	2.4% for the first year1.7% for each extra year.		
	(b) Work out the value of Joan's investment at the end of 3 years.		
		£	
			(3)
	(Total for Quest	ion 9 is 5 ma	rks)

10 Ali and Badia each have 25 000 dollars to invest.

Cyclone Bank	Tornado Bank
Invest 25 000 dollars	Invest 25 000 dollars
4.5% compound interest per year	Receive 1150 dollars interest each year
for 3 years	for 3 years

Ali invests in the Cyclone Bank for 3 years. Badia invests in the Tornado Bank for 3 years.

By the end of the 3 years, Ali will have received more interest than Badia.

How much more? Show your working clearly.

Give your answer correct to the nearest dollar.

	dollars

(Total for Question 10 is 4 marks)

	, ,		
Ci	Interest 2.5% per annum	Shares account Interest 3.5% per annum	
Ben invests £1600 (a) Work out who	in the cash savings account. In the shares account. In will get the most interest by the wall your working.	he end of 3 years.	
In the 3rd year the	e rate of interest for the shares	account is changed to 4% per annum.	(4)
(b) Does this affe	e rate of interest for the shares of the who will get the most interest for your answer.	account is changed to 4% per annum. st by the end of 3 years?	(4)

Compound Interest 2% for each year Compound Interest 4.3% for the first year 0.9% for each extra year Vhich bank will give Anil the most interest at the end of 3 years? You must show all your working. (Total for Question 12 is 3 marks)		Personal Bank	Secure Bank
Which bank will give Anil the most interest at the end of 3 years? You must show all your working.		Compound Interest	Compound Interest
ou must show all your working.		2% for each year	
(Total for Question 12 is 3 marks	Vhich bar fou must	nk will give Anil the most interest at t show all your working.	the end of 3 years?
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			(Total for Question 12 is 3 marks)

Better Investments	County Bank
Compound Interest	Compound Interest
2.5% per annum	2% per annum for the first two years 3.5% per annum for each extra year
the end of the 3 years, the value of	Louise's investment is £344605
rk out the value of Sadiq's investm	ent at the end of the 3 years.
	£
	£(Total for Question 13 is 4 marks)

14 Asha bought an apartment.

The table gives information about the value of apartments, in euros, and the annual service charge band.

Value (x euros)	Service charge band
$x \geqslant 700000$	A
$600000 \leqslant x < 700000$	В
$500000 \leqslant x < 600000$	С
$400000 \leqslant x < 500000$	D
0 < x < 400000	Е

In 2021, the value of Asha's apartment was 634400 euros.

The value of Asha's apartment had increased by 4% from its value in 2020

(a) Has the annual service charge band changed for Asha's apartment? Show your working clearly.

(3)

Pam bought a boat.

In each year after Pam bought the boat, the value of the boat depreciated by 15%

(b) Work out the total percentage by which the value of the boat had depreciated by the end of the second year after Pam bought the boat.

(3)

(Total for Question 14 is 6 marks)

15	Jenny invests \$8500 for 3 years in a savings account. She gets 2.3% per year compound interest.		
	(a) How much money will Jenny have in her savings account at the end of Give your answer correct to the nearest dollar.	3 years?	
		\$	(2)
	Rami bought a house on 1st January 2015		(3)
	In 2015, the house increased in value by 15%		
	In 2016, the house decreased in value by 8%		
	On 1st January 2017, the value of the house was \$687700		
	(b) What was the value of the house on 1st January 2015?		
		\$	(3)
	(Total for Questi	on 15 is 6 ma	

16	In 2003, Jerry bought a house.	
	In 2007, Jerry sold the house to Mia. He made a profit of 20%	
	In 2012, Mia sold the house for £162 000 She made a loss of 10%	
	Work out how much Jerry paid for the house in 2003	
		£
		(Total for Question 16 is 3 marks)

17	Chen invests 40 000 yuan in a fixed-term bond for 3 years.
	The fixed-term bond pays compound interest at a rate of 3.5% each year.
	(a) Work out the value of Chen's investment at the end of 3 years. Give your answer to the nearest yuan.
	yuan
	(3)
	Wang invested P yuan. The value of his investment decreased by 6.5% each year.
	At the end of the first year, the value of Wang's investment was 30481 yuan.
	(b) Work out the value of <i>P</i> .
	$P = \dots$
	(3)
	(Total for Ouestion 17 is 6 marks)

18	Marie invests £8000 in an account for one year. At the end of the year, interest is added to her account.	
	Marie pays tax on this interest at a rate of 20% She pays £28.80 tax.	
	Work out the percentage interest rate for the account.	
		%
_		(Total for Question 18 is 3 marks)
_		
_		
_		
_		

19	Jack bought a new boat for £12500
	The value, £ V , of Jack's boat at the end of n years is given by the formula
	$V = 12500 \times (0.85)^n$
	(a) At the end of how many years was the value of Jack's boat first less than 50% of the value of the boat when it was new?
	$\begin{array}{c} (2) \\ \end{array}$
	A savings account pays interest at a rate of $R\%$ per year. Jack invests £5500 in the account for one year.
	At the end of the year, Jack pays tax on the interest at a rate of 40%. After paying tax, he gets £79.20
	(b) Work out the value of R .
	(3)
	(Total for Question 19 is 5 marks)

20	Sakira invested £3550 in a savings account for 3 years.
	She was paid 2.6% per annum compound interest for each of the first 2 years. She was paid $R\%$ interest for the third year.
	Sakira had £3819.21 in her savings account at the end of the 3 years.
	Work out the value of <i>R</i> . Give your answer correct to 1 decimal place.
	(Total for Question 20 is 3 marks)

21	Max invests \$6000 in a savings account for 3 years.
	The account pays compound interest at a rate of 1.5% per year for the first 2 years.
	The compound interest rate changes for the third year. At the end of 3 years, there is a total of \$6311.16 in the account.
	Work out the compound interest rate for the third year. Give your answer correct to 1 decimal place.
	%
	(Total for Question 21 is 3 marks)

22	Himari invests 200 000 yen for 3 years in a savings account paying compound interest.
	The rate of interest is 1.8% for the first year and x % for each of the second year and the third year.
	The value of the investment at the end of the third year is 209754 yen.
	Work out the value of x Give your answer correct to one decimal place.
	$\chi =$
	(Total for Question 22 is 3 marks)

23	Jean invests £12 000 in an account paying compound interest for 2 years.
	In the first year the rate of interest is $x\%$ At the end of the first year the value of Jean's investment is £12336
	In the second year the rate of interest is $\frac{x}{2}\%$
	What is the value of Jean's investment at the end of 2 years?
	£
	(Total for Question 23 is 4 marks)

24	Jan invests \$8000 in a savings account. The account pays compound interest at a rate of $x\%$ per year.
	At the end of 6 years, there is a total of \$8877.62 in the account.
	Work out the value of x. Give your answer correct to 2 decimal places.
	$\chi = \dots$ (Total for Overtion 24 is 2 marks)
	(Total for Question 24 is 3 marks)

25	Naoby invests £6000 for 5 years. The investment gets compound interest of $x\%$ per annum.
	At the end of 5 years the investment is worth £8029.35
	Work out the value of x .
	(Total for Question 25 is 3 marks)