

- 1 Jane bought a new car for \$18 000  
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 \$

\$.....

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**(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

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**(Total for Question 2 is 3 marks)**

- 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.

..... dollars

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

- 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

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**(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 years?  
Give your answer to the nearest dollar.

..... dollars

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**(Total for Question 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  
Give your answer correct to the nearest dollar.

\$ .....

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

7 Henri buys a yacht for 150 000 euros.

The yacht depreciates in value by 18% each year.

Work out the value of the yacht at the end of 3 years.

Give your answer correct to the nearest euro.

..... euros

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

8 Hamish buys a new car for \$20 000

The car depreciates in value by 19% each year.

Work out the value of the car at the end of 3 years.

Give your answer to the nearest \$.

\$.....

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

- 9 Omar invests 6000 dirham for 4 years in a savings account.  
He will get 1.5% per year compound interest.

Work out the total amount of interest Omar will have received by the end of 4 years.  
Give your answer correct to the nearest dirham.

dirham

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**(Total for Question 9 is 3 marks)**

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

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

**11** 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 3 years?  
Give your answer correct to the nearest dollar.

\$ (3)

Rami bought a house on 1st January 2015

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 \$687 700

- (b) What was the value of the house on 1st January 2015?

\$ (3)

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(Total for Question 11 is 6 marks)

- 12** Himari's annual salary is 3 130 000 Japanese Yen (JPY).  
She gets a salary increase of 4%

(a) Work out Himari's salary after this increase.

.....JPY  
(3)

Kaito bought a car.

The value of the car when Kaito bought it was 750 000 JPY.

At the end of each year, the value of his car had depreciated by 15%

(b) Work out the value of Kaito's car at the end of 3 years.  
Give your answer correct to the nearest JPY.

.....JPY  
(3)

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**(Total for Question 12 is 6 marks)**



13 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
$x \geq 700\,000$	A
$600\,000 \leq x < 700\,000$	B
$500\,000 \leq x < 600\,000$	C
$400\,000 \leq x < 500\,000$	D
$0 < x < 400\,000$	E

In 2021, the value of Asha’s apartment was 634 400 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)

**14** 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 30 481 yuan.

- (b) Work out the value of  $P$ .

$P =$  .....  
(3)

(Total for Question 14 is 6 marks)

**15** Chao bought a boat for HK\$160 000

The value of the boat depreciates by 4% each year.

- (a) Work out the value of the boat at the end of 3 years.  
Give your answer correct to the nearest HK\$.

HK\$.....  
(3)

Jalina gets a salary increase of 5%

Her salary after the increase is HK\$252 000

- (b) Work out Jalina's salary before the increase.

HK\$.....  
(3)

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(Total for Question 15 is 6 marks)

**16** 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 209 754 yen.

Work out the value of  $x$

Give your answer correct to one decimal place.

$x = \dots\dots\dots$

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

**17** 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.

..... %

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

**18** 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.

$x = \dots\dots\dots$

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