## SIMPLE INTEREST

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V	Calculate the amount that £2500 will become, if it is invested for 4 years at 6% per annum simple interest.  Interest per year = 0.06 × 2500 = £150 per year  over 4 years interest: 4×150 = £600
	50 after 4 years = 2500 + 600 = £3100
	[3]
(1)	(a) Harold invests £850 at 8% p.a. simple interest. Calculate the total amount of money he has at the end of three years.  Interest per year = 0.08 x 870 = f68 per year  after 3 years interest: 3x £68 = £204  So amount of money = 870 £204 = £1054
Comp	POUND INTEREST
<u> </u>	Calculate, to the nearest penny, the compound interest earned when £800 is invested for 3 years at % per annum.  1: Intert evel 0.06 × 800 = £48

(3)	Calculate, to the near 6% per annum.	est penny, the co	ompound interest ea	rned when £800 is	invested for 3 year	rs at
4	Al: Intert	even	0.06 × 800	= £48		
	at end	of 424	800 + 48	= £848		*******
••	URZ: Interes	t eanu	0.08x 84	8 = 650.88		********
	at end	1 422	848+50.8	83 E898.	8	********
L	123: Interest	eard	0.064 898	7.88 = F5	3.93	•••••
	at ad	of yp3	898.88	+53.93 =	£952.8	
						-
						[4]

A building society offers a compound interest rate of 4% payable every six months.

(a) Jenny invests £100 in the building society. How much money does she have at the end of one year?

ON THE SIX MONTHS INTEREST ON THE END OF THE END OF THE SIX MONTHS INTEREST ON THE END OF THE END OF THE SIX MONTHS INTEREST ON THE END OF THE E

(5)	Susan invests £1500 in an account for 3 years at 8% per annum compound total amount in the account at the end of the three years. Give your answer penny.
(5)	total amount in the account at the end of the three years. Give your

penny.	ect to the neares
Un1: Interest 0.08 x 1500 = £120	
at end gyp1 1500 +120 = £1620	)
URZ: Interest 0.08 x 1620 = £129.60	
at end of 422 1620 + 129.60 3 £174	9.60
11-3	
423: Internt 0.08x 1749.605 F139.97	•
at end yrs 1749.60+139.97 = £1	889.57
	3
	[4]

interest. Calculate the

[4]

## COMPOUND DEPRICIATION

A business declares that its office equipment depreciates at the rate of 15% of its value at the beginning of each year. Find, to the nearest £100, the value of its office equipment at the end of 3 years of depreciation, if its value at the beginning of the period was £20 000.

Upl 180000 loses 0.15 x 20 000 = £3000
after 1 yr worth 20000 - 3000 = £17000
•
4nz loses 0.15x 17000 = £2550
after 29m worth 17000 - 25,705 E14 450
W3 lose 0.15 x 14450 = E2167.50
after 3 40 worth 14450 - 2167.50 = \$12 282.50
= £12300



Three years ago a car was bought for £8000. Each year the car's value depreciates by 12% of its value at the start of that year. Calculate how much the car is worth today.

WHI:  $0.12 \times 8000 = £960$ World 8000 - 960 = £7040WI :  $0.12 \times 7040 = £844.90$ World 7040 - 844.90 = £6195.20Why:  $1.020 = 6.12 \times 6195.20 = 6.12 \times 6195.20$ 

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	0	
1	8	
1		/

Every year, an item of furniture depreciates by 15% of its value at the start of that year. An item of furniture is bought for £3000. How much will it be worth in 3 years time?

Und loves D.15 x 3000 = £450 Worth 3000 - 450= £2550

uni (on 0.15x 2550 = £382.50 with = 2550 - 382.50 = £2167.50

413 (025 0.15 x 2167.50 = £325.13 with: 2167.50 - 325.13 = £1842.37

[3]

[3]