Simple Percentage Increase and Decrease
Answers

For each question, calculate the amount of simple interest charged.

	Amount Borrowed (£)	Interest Rate (Per Annum)	Length of Loan (Years)	Simple Interest
1.	1000	5%	1	**1000 × 0.05 = £50**
2.	20 000	3%	5	**20 000 × 0.03 × 5 = £3000**
3.	150 000	2.5%	25	**150 000 × 0.025 × 25 = £93 750**
4.	18 500	4%	10	**18 500 × 0.04 × 10 = £7400**
5.	3600	8%	1.5	**3600 × 0.08 × 1.5 = £432**
6.	510 000	0.5%	30	**510 000 × 0.005 × 30 = £76 500**

7. Gillian owes her mum £240. In March, she pays back 25% of it. In April, she pays back another 30% of the original total. How much does she now owe?

   240 × 0.55 = £132

   240 − 132 = £108

   or 240 × 0.45 = £108

8. Chris needs to borrow £2500 for a short amount of time. The loan company charges 24% simple interest per annum. He will pay the loan back after 13 weeks. Calculate the total amount he will need to pay.

   2500 × 0.24 = £600

   13 ÷ 52 = 0.25

   600 × 0.25 = £150

   2500 + 150 = £2650

9. A student takes out a loan of £9000 to pay for their university course. The loan has a simple interest rate of 2.4% per annum. After 3 years, they are ready to start paying back the loan. How much do they owe before any is paid back?

   9000 × 0.024 × 3 = £648

   9000 + 648 = £9648

10. A dog had a mass of 40kg. Its mass increased by 8% of the original mass then decreased by12% of the original mass. Calculate the new mass of the dog.

   40 × 0.96 = 38.4kg

Simple Percentage Increase and Decrease

For each question, calculate the amount of simple interest charged.

	Amount Borrowed (£)	Interest Rate (Per Annum)	Length of Loan (Years)	Simple Interest
1.	1000	5%	1	
2.	20 000	3%	5	
3.	150 000	2.5%	25	
4.	18 500	4%	10	
5.	3600	8%	1.5	
6.	510 000	0.5%	30	

7. Gillian owes her mum £240. In March, she pays back 25% of it. In April, she pays back another 30% of the original total. How much does she now owe?

8. Chris needs to borrow £2500 for a short amount of time. The loan company charges 24% simple interest per annum. He will pay the loan back after 13 weeks. Calculate the total amount he will need to pay.

9. A student takes out a loan of £9000 to pay for their university course. The loan has a simple interest rate of 2.4% per annum. After 3 years, they are ready to start paying back the loan How much do they owe before any is paid back?

10. A dog had a mass of 40kg. Its mass increased by 8% of the original mass then decreased by 12% of the original mass. Calculate the new mass of the dog.