

Walking Talking - Percentages

1.

Dylan invests £12 000 for 3 years at 4% per annum compound interest.
Find the compound interest earned in the 3 years.
Your answer should be given correct to the nearest penny.

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2.

The bill for repairing a washing machine came to £151.68, inclusive of VAT at 20%.
What was the cost before VAT was added?

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3.

A shopkeeper calculates the selling price of a coat by increasing the manufacturer's price by 18%.
In a sale, the shopkeeper reduced the selling price of the coat by 15%. The sale price of the coat was £90.27.
Calculate the manufacturer's price for the coat.

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4.

The financial press has just published the following headline.

<p style="text-align: center;"><u>PURKOZI Ltd.</u></p> <p style="text-align: center;">Annual profit £4,760,000</p> <p style="text-align: center;">Down 13% from last year</p>

What was the profit made by this company last year?
Give your answer to the nearest ten thousand pounds.

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5.

Complete the table below.

Original amount	After a decrease of	
	40%	2%
£	£492	£

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6.

A shop has reduced the price of a bicycle by 40% of its original price.

The sale price of the bicycle is £192.

Calculate the original price of the bicycle.

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7.

You will be assessed on the quality of your written communication in this question.

A person's Taxable Income is calculated as follows.

$$\text{Taxable Income} = \text{Gross Income} - \text{Pension Contribution} - \text{Other Allowances}$$

Rafael has a Gross Income of £57 500 and pays a Pension Contribution of £5175.
His Other Allowances total £7475.

Rafael pays tax at the rate of 20% on the first £35 000 of his Taxable Income, and at a rate of 40% on the rest of his Taxable Income.

Calculate the total amount of tax that Rafael pays.

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