

# Year 9 Mathematics Learning Journey: Unit 8 - Using Percentages

## Steps 7 (H): Repeated percentage change

A shop decreases all its prices by 25% and then by a further 25%. "Everything in the shop is now half price" – Show that this statement is wrong.

## Step 6: Calculator percentage problems

The cost of a litre of petrol increased by 12%. A litre of petrol then cost 145.6p. Work out the price of a litre of petrol before the increase.

## Step 5: Non-calculator percentage problems

In a sale, normal prices are reduced by 15%. The normal price of a book is reduced by £2.40. Work out the normal price of the book.

## Step 4: Reverse percentage problems

40% of my number is 12. What number am I thinking of.

## Step 3 (R): Change as a percentage

Last year Seb paid £568 for his car insurance. This year he has to pay £715 for his car insurance. Work out the percentage increase in his car insurance. Give your answer to 1 decimal place.

## Step 2 (R): Percentage increase/ decrease

Miss Chang's salary is £28 000 a year. She gets a 12% pay rise. Work out her new salary.

## Step 1 (R): FDP equivalence

Describe the steps you need to convert a percentage to a fraction.



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