The market value of a house increases by $30 \%$, before the market value
then falls by $25 \%$.
What is the overall percentage change to the market value of the house?

What is the overall percentage change to the market value of the house?
How can we apply the first change?

To increase by $30 \%$, multiply by 1.3
How can we then apply the second change?

Can this calculation be simplified?
What is the overall percentage change?

When multiplying by 0.975 , this is equivalent to a decrease of $2.5 \%$.

## c)

Over the space of two years, the share price of a company decreases by $5 \%$ one year, and then increases by $5 \%$ over the following year.
What is the overall percentage change on the share price of the company?

How can we apply the first change?

To decrease by $5 \%$, multiply by 0.95
How can we then apply the second change?
Can this calculation be simplified?
What is the overall percentage change?
b)

Over the space of two years, the price of a drink increases by $20 \%$, and then increases by $10 \%$.
What is the overall percentage change on the price of the drink?

How can we apply the first change? To increase by $20 \%$, multiply by 1.2

How can we then apply the second change?

Can this calculation be simplified?
What is the overall percentage change?
d)

In the beginning of 2020, Chris got a new job.
At the beginning of 2021, Chris received a pay rise of $12 \%$.
At the beginning of 2022, Chris received another pay rise of $12 \%$. What is the overall percentage change in Chris' pay between 2020 and 2022?

