When you put your money in a bank, the bank pay you **interest**.

This means they pay you a small percentage of the amount you have put in to reward you for banking with them.



This is a real-life example of percentage increase - we are going to use some prior knowledge and skills about percentage increase in the lesson today.

You will have £1000 to invest in a bank of your choice. By the end of the lesson, you need to be able to decide which bank you will use and give a reason for your answer.





<u>Task</u>

Calculate the amount of money you will have in the Natwest account after 1 year.

🖧 NatWest

4.2 %
Simple interest
Annually
3 years

This is the interest rate. You need to work out 4.2% of 1000 and add it on to the original amount.

<u>Challenge</u> Calculate the amount of money in each of the **RED** accounts after 1 year. You don't need to worry about simple or compound interest for the moment.

🖧 NatWest

- 4.2 %
- Simple interest
- Annually
- 3 years

You leave the money in the account for 3 years.

 $0.042 \times 1000 = \pounds 42$

Natwest pay you £42 every year. £42 × 3 = £126.

At the end of 3 years, you have £1126 in your account.

<u>Task</u>

Use a similar method to calculate the amount you will have after 4 years with Barclays.

Challenge

Do similar calculations for the other banks offering **simple** interest (ING and Yorkshire).



 Some banks pay compound interest. 3.8% Compound interest 4 100% + 3.8% = 103.8%
100% + 3.8% Compound interest $100\% + 3.8\% = 103.8\%$
• 3 years As a decimal, this is 1.038.
<u>Method 1 – Work it out each year</u> <u>Method 2 – In one step</u>
Year 1 : £1000 × 1.038 = £1038 1000 × 1.038 ³ = £1118.38
Year 2 : £1038 × 1.038 = £1077.44
Year 3: £ 1077.44 × 1.038 = £1118.38
TaskUse whichever method you prefer to work out the amount you will get from Lloyds after 4 years.Challenge

Using the calculations that you have done, work out which bank makes you the most money.

Write down which bank you will invest your £1000 with.





Answer the questions below in your book.

A bank pays 5% compound interest per year. You have £500.

RED

Work out how much you will have after the first year.

AMBER

Work out how much you will have after 3 years.

GREEN

Explain why 5% compound interest is a better deal than 5% simple interest.