

Learning Objective 1: Increasing or decreasing by a given percentage using a calculator

Learning Objective 2: To solve problems involve percentage increase or decreases

Part 1

What decimal would I multiply by to:

Increase by 15%	Increase by 27%	Decrease by 24%
Increase by 5%	Decrease by 17%	Decrease by 4%

Work out the following, writing down your calculation carefully

Increase 40 by 13%	Increase 28 by 7%	Decrease 45 by 14%
Increase 120 by 14%	Decrease 88 by 2%	Increase 105 by 44%
Decrease 4 by 1%	Decrease 15.20 by 88%	Increase 50 by 44%

Part 2: Multiple increases and decreases: REMEMBER every separate increase or decrease needs a separate multiplier

What decimal do I multiply by to:

Increase by 37% 5 times	Increase by 22% 14 times	Decrease by 20% 4 times
Increase by 10% then decrease by 7%	Decrease by 10% then increase by 10% [any comment?]	Increase by 4% 5 times

Solve the following problems

Jack invests £300. It increases by 11% per year. How much does he have after 3 years? How long before his money doubles?	An antique increases by 7% for the first 5 years and then decreases by 8% for the next two years. If it originally cost £3000, is it worth more or less than this after 7 years?
The population of a town is 3,000,000 The population increases by 4% a year. How large is the population after 10 years? How long before the population is more than 4,000,000?	A ball is dropped from 2m high. After every bounce its height decreases by 30%. How high does it bounce after 2 bounces? How long before it only bounces by 10cm?