

Maths.scot



National 5 Maths Appreciation & Depreciation

SQA past paper and specimen paper questions and answers by topic

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Beth normally cycles a total distance of 56 miles per week.
She increases her distance by 15% each week for the next three weeks.
How many miles will she cycle in the third week?

3

Answer:

85.169 miles

National 5 Maths
SQA 2014 Paper 2
Question 1

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There are 964 pupils on the roll of Aberleven High School.

It is forecast that the roll will decrease by 15% per year.

What will be the expected roll after 3 years?

Give your answer to the nearest ten.

3

Answer:

590

National 5 Maths
SQA 2015 Paper 2
Question 1

A house is valued at £240 000.

Its value is predicted to rise by 2.8% per annum.

Calculate its predicted value after 2 years.

3

Answer:

£253 628

National 5 Maths
SQA 2016 Paper 2
Question 1

A drinks manufacturer is reducing the sugar content of one of their fizzy drinks by 8% per year over the next 3 years.

The sugar content of a standard can is currently 35 grams.

Calculate the sugar content of a standard can after 3 years.

3

Answer:

27.3 g (approximately)

Beth normally cycles a total distance of 64 miles per week.

She increases her total distance by 15% each week for the next three weeks.

How many miles does she cycle in the third week?

3

Give your answer to the nearest mile.

Answer:

97 miles

National 5 Maths
SQA 2017 Paper 2
Question 2

A necklace is valued at £1200.

Its value is expected to increase by 4.5% per year over the next 3 years.

Calculate the expected value of the necklace after this time.

Give your answer to the nearest pound.

3

Answer:

£1369

National 5 Maths
SQA 2018 Paper 2
Question 1

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Households in a city produced a total of 125 000 tonnes of waste in 2017.

The total amount of waste is expected to fall by 2% each year.

Calculate the total amount of waste these households are expected to produce in 2020.

3

Answer:

117 649 tonnes

National 5 Maths
SQA 2019 Paper 2
Question 1

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A charity distributed 80 000 emergency packages during 2018.

This number is expected to increase by 15% each year.

Calculate how many emergency packages the charity expects to distribute in 2021.

3

Answer:

121 670

National 5 Maths
SQA 2021 Paper 2
Question 1

A housing development is being built.

The price of a house built in 2020 is £250 000.

This price is expected to increase by 4% each year.

Calculate the expected price of a house built in 2022.

3

Answer:

£270 400

National 5 Maths
SQA 2022 Paper 2
Question 2

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A company's annual profit at the end of 2021 was £215,000.

The profit is expected to increase by 3% each year.

Calculate the company's expected annual profit by the end of 2025.

Give your answer correct to the nearest thousand pounds.

3

Answer:

£242 000

National 5 Maths
SQA 2023 Paper 2
Question 1

A caravan was bought for £20,000.

It depreciated by 11% in the first year.

It then depreciated by a further 6% each year over the next two years.

Calculate the value of the caravan three years after it was bought.

3

Answer:

£15 728.08

National 5 Maths
SQA 2024 Paper 2
Question 1

Dougie pays £460 for a new laptop.

It is expected that the value of the laptop will depreciate by 26% each year.

Calculate the expected value of Dougie's laptop after 3 years.

3

Answer:

£186.40

National 5 Maths
SQA 2025 Paper 2
Question 1

The number of visitors to a zoo in 2024 was 118 750.

The number of visitors is expected to increase by 4% each year over the next two years.

Calculate the expected number of visitors in 2026.

3

Answer:

128440