

NATIONAL 5  
APPLICATIONS OF  
MATHS STUDY  
GUIDE-PRELIM

MATHEMATICS

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# Finance

## Finance Booklet

[Finances Booklet](#) (**Covers all Finance in the course and includes answers**)

You have covered the whole finance unit.

This booklet includes:

- Basic Wages
- Overtime
- Commission
- Deductions
- National Insurance Payments
- Saving Wages
- Wages Mixed Questions
- Foreign Exchange Questions
- Shares
- Hire Purchase
- Interest and Loan Payments
- Comparing Costs and Best Deals

## Budgeting

[Budgeting Further Worksheet](#)

**Answers** - <https://www.national5maths.co.uk/wp-content/uploads/2021/06/Budgeting-Answers.pdf>

[BBC Bitesize Budgeting](#)

## Comparing Costs

[Comparing Costs Further Worksheet](#)

**Answers** - <https://www.national5maths.co.uk/wp-content/uploads/2021/06/Comparing-Costs-Answers.pdf>

## Foreign Exchange

[Foreign Exchange Further Worksheet](#)

**Answers** - <https://www.national5maths.co.uk/wp-content/uploads/2021/06/Foreign-Exchange-Answers.pdf>

[Foreign Exchange Exam](#)

**Answers** - <https://www.national5maths.co.uk/wp-content/uploads/2019/08/Foreign-Exchange-Answers-F.pdf>

[BBC Bitesize Foreign Exchange](#)

Wages

[Wages Further Worksheet](#)

**Answers** - <https://www.national5maths.co.uk/wp-content/uploads/2021/06/Wages-Answers.pdf>

[Wages Exam](#)

**Answers** - <https://www.national5maths.co.uk/wp-content/uploads/2019/08/Wages-Overtime-Answers-F.pdf>

Percentages (Compound Interest, Appreciation & Depreciation)

**Basic Practice** - <https://www.national5maths.co.uk/wp-content/uploads/2020/04/ES-29-FF.pdf>

**Answers** - <https://www.national5maths.co.uk/wp-content/uploads/2020/04/Answers-29-30-F.pdf>

**EXAM** - <https://www.national5maths.co.uk/wp-content/uploads/2019/09/Percentages-NA-F-1.pdf>  
(ONLY Q's 1,3,4,6)

**Answers** - <https://www.national5maths.co.uk/wp-content/uploads/2019/09/Percentages-F.pdf>  
<https://www.national5maths.co.uk/wp-content/uploads/2020/08/Percentages-F.pdf> (Q1 - 26 ONLY)

**Answers** - <https://www.national5maths.co.uk/wp-content/uploads/2020/08/Percentages-Answers-F.pdf>

[Appreciation and Depreciation Theory](#)

[Maths180Compound](#)

[Mr Graham Maths Compound](#)

[Free Applications of Maths Appreciation & Depreciation](#)

[Free Applications of Maths Compound Interest](#)

Hire Purchase

[Hire Purchase Exam](#)

**Answers** - <https://www.national5maths.co.uk/wp-content/uploads/2019/08/Hire-Purchase-Answers-F.pdf>

Tax Calculations

[Tax Calculations Exam](#)

**Answers** - <https://www.national5maths.co.uk/wp-content/uploads/2019/08/National-Insurance-Answers-F.pdf>

## Shares

[Shares Exam](#)

**Answers** - <https://www.national5maths.co.uk/wp-content/uploads/2019/08/Shares-Answers-F.pdf>

## Extra Videos

[BBC Bitesize Income](#)

[BBC Bitesize Best Deal](#)

[BBC Bitesize Saving and Borrowing](#)

# Statistics

## Standard Deviation

**Standard Deviation Basic Practice** - <https://www.national5maths.co.uk/wp-content/uploads/2021/01/ES12-F.pdf>

**Answers** - <https://www.national5maths.co.uk/wp-content/uploads/2022/10/ES-12-F.pdf>

**Exam Questions** - <https://www.national5maths.co.uk/wp-content/uploads/2022/08/Standard-Deviation-Final-No-Answers.pdf>

**Answers** - <https://www.national5maths.co.uk/wp-content/uploads/2022/08/Standard-Deviation-Final.pdf>

[N5THEORYSTANDARDDEVIATION](#)

[Mr Graham Maths Standard Deviation](#)

[BBC Bitesize Standard Deviation](#)

## Mean, Median, Mode & Range

**Basic Practice** - <https://corbettmaths.com/wp-content/uploads/2013/02/averages-and-range-pdf2.pdf>

**Answers** - <https://corbettmaths.com/wp-content/uploads/2019/08/Averages-median.pdf>

[Corbettmaths Mean](#)

[Corbettmaths Median](#)

[Corbettmaths Mode](#)

[Corbettmaths Range](#)

[BBC Bitesize](#)

## Probability

**Basic Practice** - <https://corbettmaths.com/wp-content/uploads/2021/03/Probability-2.pdf>

**Answers** - <https://corbettmaths.com/wp-content/uploads/2018/11/Probability-answers.pdf>

**Exam Questions** - <https://www.national5maths.co.uk/wp-content/uploads/2022/07/Probability-Final-No-Answers-2.pdf>

**Answers** - <https://www.national5maths.co.uk/wp-content/uploads/2022/07/Probability-Final-2.pdf>

[Corbettmaths Probability](#)

# Numeracy

## Significant Figures

**This is a skill which can appear in many exam questions and is the last step to gain the final mark**

**Sig.Figs** - <https://www.national5maths.co.uk/wp-content/uploads/2019/12/3-sig-figs.ppt>,  
[Decimal and Significant Figure worksheet](#)

[Significant Figures Theory](#)  
[Corbettmaths Significant Figure](#)

## Rounding Decimals

**Basic Practice** - <https://corbettmaths.com/wp-content/uploads/2019/01/Rounding-decimal-places-pdf.pdf>

**Answers** - <https://corbettmaths.com/wp-content/uploads/2019/08/rounding-decimal-places.pdf>

[Corbettmaths Decimal Places](#)  
[BBC Bitesize](#)

## Multiplying

**Basic Practice** - <https://corbettmaths.com/wp-content/uploads/2018/01/multiplication-2-pdf.pdf>

**Answers** - <https://corbettmaths.com/wp-content/uploads/2019/08/Multiplication-2.pdf>

[Corbettmaths Multiplying](#)  
[BBC Bitesize](#)

## Dividing

**Basic Practice** - <https://corbettmaths.com/wp-content/uploads/2018/01/division-pdf.pdf>

**Answers** - <https://corbettmaths.com/wp-content/uploads/2019/08/Division-short.pdf>

[Corbettmaths Dividing](#)  
[BBC Bitesize](#)

## Percentages/Fractions

**Expressing as a Percentage Practice** -

[https://www.freeapplicationsofmaths.co.uk/\\_files/ugd/01375a\\_4d11661566a346bd980c274d194c1074.pdf](https://www.freeapplicationsofmaths.co.uk/_files/ugd/01375a_4d11661566a346bd980c274d194c1074.pdf)

**Answers** -

[https://www.freeapplicationsofmaths.co.uk/\\_files/ugd/01375a\\_b9c6cfff4c96a4749b401a8830c2f9197.pdf](https://www.freeapplicationsofmaths.co.uk/_files/ugd/01375a_b9c6cfff4c96a4749b401a8830c2f9197.pdf)

**Percentage of an Amount Practice** – <https://corbettmaths.com/wp-content/uploads/2018/11/Percentages-of-amounts-234-pdf.pdf>

**Answers** – <https://corbettmaths.com/wp-content/uploads/2021/03/Percentage-of-an-amount-non-calc.pdf>

**Equivalent Fractions Practice** – <https://corbettmaths.com/wp-content/uploads/2019/03/Equivalent-Fractions-pdf.pdf>

**Answers** – <https://corbettmaths.com/wp-content/uploads/2019/03/Scan-2019-3-13-14.09.18.pdf>

**Fraction of an Amount Practice** - <https://corbettmaths.com/wp-content/uploads/2013/02/fraction-of-an-amount-pdf2.pdf>

**Answers** - <https://corbettmaths.com/wp-content/uploads/2021/12/fraction-of-amounts.pdf>

**Fractions, Decimals & Percentages Mixture** - <https://corbettmaths.com/wp-content/uploads/2018/11/FDP-Mixture-pdf.pdf>

**Answers** - <https://corbettmaths.com/wp-content/uploads/2018/11/FDP-Mixture-Answers-1.pdf>

[BBC Bitesize Percentage of a Quantity](#)

[BBC Bitesize Fraction of an Amount](#)

[BBC Bitesize Equivalent Fractions](#)

[Corbettmaths Fractions, Decimals & Percentages](#)

Ratio

**Practice** -

[https://www.freeapplicationsofmaths.co.uk/\\_files/ugd/01375a\\_a97251f81b484b8bae9093162d8b7c3d.pdf](https://www.freeapplicationsofmaths.co.uk/_files/ugd/01375a_a97251f81b484b8bae9093162d8b7c3d.pdf)

**Answers** -

[https://www.freeapplicationsofmaths.co.uk/\\_files/ugd/01375a\\_90a080f8c0bb475381d138c5d5b5bc40.pdf](https://www.freeapplicationsofmaths.co.uk/_files/ugd/01375a_90a080f8c0bb475381d138c5d5b5bc40.pdf)

**Exam Questions** - <https://www.national5maths.co.uk/wp-content/uploads/2022/07/Ratio-Final-No-Answers.pdf>

**Answers** - <https://www.national5maths.co.uk/wp-content/uploads/2022/07/Ratio-Final.pdf>

[Free Applications of Maths Simplifying](#)

[Free Applications of Maths Calculations](#)

[Free Applications of Maths Sharing in a Given Ratio](#)

[Free Applications of Maths Direct Proportion](#)

[Free Applications of Maths Indirect Proportion](#)

[BBC Bitesize](#)



## Pythagoras

### **Pythagoras Practice -**

[https://www.freeapplicationsofmaths.co.uk/\\_files/ugd/01375a\\_e4d10239d70e482db4874759bae39731.pdf](https://www.freeapplicationsofmaths.co.uk/_files/ugd/01375a_e4d10239d70e482db4874759bae39731.pdf) **Don't Do Section 3**

### **Answers -**

[https://www.freeapplicationsofmaths.co.uk/\\_files/ugd/01375a\\_63bd0b64d2ac472a803dc56e20f3b86f.pdf](https://www.freeapplicationsofmaths.co.uk/_files/ugd/01375a_63bd0b64d2ac472a803dc56e20f3b86f.pdf)

**Pythagoras Exam Questions -** <https://www.national5maths.co.uk/wp-content/uploads/2022/07/Pythagoras-Final-No-Answers-2.pdf>

**Answers -** <https://www.national5maths.co.uk/wp-content/uploads/2022/07/Pythagoras-Final-2.pdf>

[BBC Bitesize](#)

[Mr Graham Maths Pythagoras](#)

## Gradient

### **Gradient Practice -**

[https://www.freeapplicationsofmaths.co.uk/\\_files/ugd/01375a\\_d256964ed50646179070a4a7525b5e03.pdf](https://www.freeapplicationsofmaths.co.uk/_files/ugd/01375a_d256964ed50646179070a4a7525b5e03.pdf)

### **Answers -**

[https://www.freeapplicationsofmaths.co.uk/\\_files/ugd/01375a\\_26b39255357443a5b4baa6cc14bd2724.pdf](https://www.freeapplicationsofmaths.co.uk/_files/ugd/01375a_26b39255357443a5b4baa6cc14bd2724.pdf)

**Gradient Exam Questions -** <https://www.national5maths.co.uk/wp-content/uploads/2022/07/Gradients-Final-No-Answers.pdf>

**Answers -** <https://www.national5maths.co.uk/wp-content/uploads/2022/07/Gradients-Final.pdf>

[BBC Bitesize](#)

[Mr Graham Maths Gradient](#)

## Perimeter & Area

### **Area & Perimeter Questions -**

[https://www.freeapplicationsofmaths.co.uk/\\_files/ugd/01375a\\_e15d2214081043ac960ec532564d6cb9.pdf](https://www.freeapplicationsofmaths.co.uk/_files/ugd/01375a_e15d2214081043ac960ec532564d6cb9.pdf)

### **Answers -**

[https://www.freeapplicationsofmaths.co.uk/\\_files/ugd/01375a\\_84ef1bec9c3e42f891980f996041ed1b.pdf](https://www.freeapplicationsofmaths.co.uk/_files/ugd/01375a_84ef1bec9c3e42f891980f996041ed1b.pdf)

**Area Exam Questions -** <https://www.national5maths.co.uk/wp-content/uploads/2020/09/Area-FF.pdf>

**Answers -** <https://www.national5maths.co.uk/wp-content/uploads/2019/08/Area-Answers-F.pdf>

**Perimeter Exam Questions** - <https://www.national5maths.co.uk/wp-content/uploads/2020/09/Perimeter-FF.pdf>

**Answers** - <https://www.national5maths.co.uk/wp-content/uploads/2019/08/Perimeter-Answers.pdf>

[BBC Bitesize Area and Perimeter](#)

## Volume

**Volume of Prism Practice** - <https://corbettmaths.com/wp-content/uploads/2013/02/volume-of-a-prism-pdf1.pdf>

**Answers** - <https://corbettmaths.com/wp-content/uploads/2019/08/volume-of-prism.pdf>

Extra - [Volume of Prisms](#)

[Answers](#)

**Volume of a Cube/Cuboid Practice** – <https://corbettmaths.com/wp-content/uploads/2013/02/volume-of-a-cuboid-pdf1.pdf>

**Answers** - <https://corbettmaths.com/wp-content/uploads/2019/08/Volume-of-cuboid.pdf>

**Volume of a Cylinder Practice** – <https://corbettmaths.com/wp-content/uploads/2013/02/volume-of-a-cylinder-pdf1.pdf>

**Answers** - <https://corbettmaths.com/wp-content/uploads/2020/05/Volume-of-cylinder.pdf>

Extra - [Cylinder](#)

[Answers](#)

**Volume of a Sphere Practice** – <https://corbettmaths.com/wp-content/uploads/2013/02/volume-of-a-sphere-pdf1.pdf>

**Answers** – <https://corbettmaths.com/wp-content/uploads/2019/08/Volume-of-sphere.pdf>

**Volume of a Cone Practice** – <https://corbettmaths.com/wp-content/uploads/2013/02/volume-of-a-cone-pdf2.pdf>

**Answers** - <https://corbettmaths.com/wp-content/uploads/2020/05/Volume-of-cone.pdf>

**Volume of a Pyramid Practice** – <https://corbettmaths.com/wp-content/uploads/2021/09/Volume-of-a-Pyramid-pdf.pdf>

**Answers** – <https://corbettmaths.com/wp-content/uploads/2018/09/Volume-of-a-Pyramid-answers.pdf>

**Volume Exam Questions** - <https://www.national5maths.co.uk/wp-content/uploads/2020/09/Volume-FF.pdf>

**Answers** - <https://www.national5maths.co.uk/wp-content/uploads/2019/08/Volume-Answers-F.pdf>

[Volume Theory](#)

[BBC Bitesize Volume](#)

[Corbettmaths Volume of a Prism](#)  
[Corbettmaths Volume of a Cube/Cuboid](#)  
[Corbettmaths Volume of a Cylinder](#)  
[Corbettmaths Volume of a Sphere](#)  
[Corbettmaths Volume of a Cone](#)  
[Corbettmaths Volume of a Pyramid](#)

## USEFUL WEBSITES

- Free N5 Applications of Maths  
<https://www.national5maths.co.uk/n5-lifeskills-maths/>
- Free Applications of Maths  
<https://www.freeapplicationsofmaths.co.uk/n5workshop>
- Dynamic Maths  
[https://www.dynamicmaths.co.uk/NQCourseIndex/D\) National 5 Mathematics.php](https://www.dynamicmaths.co.uk/NQCourseIndex/D) National 5 Mathematics.php)
- SQA Past Papers  
<https://www.sqa.org.uk/pastpapers/findpastpaper.htm?subject=Applications+of+Mathematics&level=>
- Corbettmaths  
<https://corbettmaths.com/>