**Entry to National 4 Application of Mathematics**

Plan

National 4 Applications of Mathematics has three compulsory units: Numeracy, Managing Finance and Statistics and Geometry and Measures. There are a number of key skills that are important to your success in these units and we will be working on these skills over the next four weeks. We will be assuming this has been completed on your return to school. For the month of May you can ask questions by emailing [maths@coltnesshigh.n-lanark.sch.uk](mailto:maths@coltnesshigh.n-lanark.sch.uk) and a Microsoft Team will be created later.

Resources

There will be links to all the resources you need and you can use the Leckie & Leckie National 4 textbook for extra practice. You can access the textbook via the website <https://connect.collins.co.uk/school/defaultlogin.aspx> and using the login details below:

Username – COLTNESS1Student

Password – P@55word

Content

Week 1

* Basic Operations – it is important to be familiar with the basic operations of adding, subtracting, multiplying and dividing

Week 2

* BODMAS
* Negative numbers
* Rounding
* Fractions

Week 3

* Decimals

Week 4

* Percentages
* Fractions, decimals and percentages
* Time intervals

**Week 1 - Basic Operations**

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|  | **Instructional videos** | **Practice questions** | **Answers** | **Exam type question** | **Answers** |
| Addition | [Addition](https://corbettmaths.com/2013/12/19/addition-video-6/) | [Addition](https://corbettmaths.com/wp-content/uploads/2013/02/addition-pdf4.pdf) | [Addition answers](https://corbettmaths.com/wp-content/uploads/2019/08/Addition-column.pdf) | [Addition](https://corbettmaths.com/wp-content/uploads/2013/02/addition-pdf2.pdf) | [Addition Answers](https://corbettmaths.com/wp-content/uploads/2015/03/addition.pdf) |
| Subtraction | [Subtraction](https://corbettmaths.com/2013/12/19/subtraction-video-304/) | [Subtraction](https://corbettmaths.com/wp-content/uploads/2018/09/Subtraction-pdf.pdf) | [Subtraction answers](https://corbettmaths.com/wp-content/uploads/2018/09/Subtraction-%E2%80%93-Video-304-Answers-1.pdf) | [Subtraction](https://corbettmaths.com/wp-content/uploads/2013/02/subtraction-pdf.pdf) | [Subtraction answers](https://corbettmaths.com/wp-content/uploads/2015/03/subtraction.pdf) |
| Multiplication | [Multiplication](https://corbettmaths.com/2013/02/15/multiplication-traditional/) | [Multiplication (1)](https://corbettmaths.com/wp-content/uploads/2018/01/multiplication-1-pdf.pdf)  [Multiplication (2)](https://corbettmaths.com/wp-content/uploads/2018/01/multiplication-2-pdf.pdf) | [Multiplication (1) answers](https://corbettmaths.com/wp-content/uploads/2019/08/Multiplication-1.pdf)  [Multiplication (2) answers](https://corbettmaths.com/wp-content/uploads/2019/08/Multiplication-2.pdf) | [Multiplication](https://corbettmaths.com/wp-content/uploads/2013/02/multiplication-pdf1.pdf) | [Multiplication](https://corbettmaths.com/wp-content/uploads/2015/03/column-method.pdf) |
| Division | [Division](https://corbettmaths.com/2013/12/28/division-video-98/)  [Division with remainders](https://corbettmaths.com/2012/08/11/1334/) | [Division](https://corbettmaths.com/wp-content/uploads/2018/01/division-pdf.pdf)  [Division with remainders](https://corbettmaths.com/wp-content/uploads/2018/11/Division-Remainders-pdf.pdf) | [Division answers](https://corbettmaths.com/wp-content/uploads/2019/08/Division-short.pdf)  [Division with remainders answers](https://corbettmaths.com/wp-content/uploads/2018/11/Division-Remainders-answers.pdf) | [Division](https://corbettmaths.com/wp-content/uploads/2013/02/division-pdf1.pdf)  [Division with remainders](https://corbettmaths.com/wp-content/uploads/2013/02/division-pdf1.pdf) | [Division answers](https://corbettmaths.com/wp-content/uploads/2015/03/division.pdf)  [Division with remainders answers](https://corbettmaths.com/wp-content/uploads/2015/03/division.pdf) |
| Multiplication by 10,100 & 1000 | [Multiplication by 10, 100 & 1000](https://corbettmaths.com/2013/06/06/multiplication-by-10-100-and-1000-2/) | [Multiplication by 10,100 & 1000](https://corbettmaths.com/wp-content/uploads/2018/09/Multiplication-by-10-100-1000-pdf.pdf) | [Multiplication by 10,100 & 1000 answers](https://corbettmaths.com/wp-content/uploads/2019/10/multiply-by-10-100-1000.pdf) | [Multiplication by 10,100 & 1000](https://corbettmaths.com/wp-content/uploads/2013/02/multiply-divide-by-10-100-1000-pdf.pdf) | [Multiplication by 10,100 & 1000 answers](https://corbettmaths.com/wp-content/uploads/2015/03/mult-divide-10-100-1000.pdf) |
| Division by 10,100 & 1000 | [Division by 10, 100 & 1000](https://corbettmaths.com/2013/05/19/division-by-10-100-and-1000/) | [Division by 10,100 & 1000](https://corbettmaths.com/wp-content/uploads/2018/01/dividing-by-10-100-1000-pdf.pdf) | [Division by 10,100 & 1000 answers](https://corbettmaths.com/wp-content/uploads/2019/08/Division-by-10-100-1000.pdf) | [Division by 10,100 & 1000](https://corbettmaths.com/wp-content/uploads/2013/02/division-pdf1.pdf) | [Division by 10,100 & 1000 answers](https://corbettmaths.com/wp-content/uploads/2015/03/mult-divide-10-100-1000.pdf) |

**Week 2**

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|  | **Instructional videos** | **Practice questions** | **Answers** | **Exam type question** | **Answers** |
| BODMAS | [BODMAS](https://corbettmaths.com/2013/06/08/order-of-operations/) | [BODMAS](https://corbettmaths.com/wp-content/uploads/2013/02/order-of-operations-pdf.pdf) | [BODMAS answers](https://corbettmaths.com/wp-content/uploads/2016/02/bodmas-answers.pdf) | [BODMAS](https://corbettmaths.com/wp-content/uploads/2018/11/Order-of-Operations-Exercise-211-pdf.pdf) | [BODMAS answers](https://corbettmaths.com/wp-content/uploads/2018/11/BODMAS-Answers.pdf) |
| Negative numbers | [Adding and subtracting](https://corbettmaths.com/2013/06/08/negatives-addition-and-subtraction-2/)  [Multiplying](https://corbettmaths.com/2012/08/20/multiplying-negative-numbers/)  [Dividing](https://corbettmaths.com/2012/08/20/dividing-involving-negatives/)  [Ordering](https://corbettmaths.com/2013/06/06/ordering-numbers-including-negatives/) | [Mixed exercise](https://corbettmaths.com/wp-content/uploads/2013/02/arithmetic-with-negatives-pdf.pdf)  [Ordering](https://corbettmaths.com/wp-content/uploads/2013/02/ordering-numbers-pdf.pdf) | [Mixed exercise answers](https://corbettmaths.com/wp-content/uploads/2015/03/negatives.pdf)  [Ordering answers](https://corbettmaths.com/wp-content/uploads/2015/03/ordering-numbers.pdf) | [Addition and subtraction](https://corbettmaths.com/wp-content/uploads/2013/02/negatives-addition-and-subtraction-pdf.pdf)  [Multiplication and division](https://corbettmaths.com/wp-content/uploads/2018/11/Negatives-multiplication-and-division-pdf.pdf)  [Ordering](https://corbettmaths.com/wp-content/uploads/2013/02/ordering-numbers-pdf1.pdf) | [Addition and subtraction answers](https://corbettmaths.com/wp-content/uploads/2019/08/Negatives-addsubstract.pdf)  [Multiplication and division answers](https://corbettmaths.com/wp-content/uploads/2018/11/Negative-Numbers.pdf)  [Ordering answers](https://corbettmaths.com/wp-content/uploads/2019/08/ordering-numbers.pdf) |
| Rounding | [Nearest whole number](https://corbettmaths.com/2013/10/24/rounding-to-the-nearest-whole-number/)  [Nearest 10](https://corbettmaths.com/2013/08/17/rounding-to-the-nearest-10/)  [Nearest 100](https://corbettmaths.com/2013/08/17/rounding-to-the-nearest-100/)  [Decimal places](https://corbettmaths.com/2013/09/07/rounding-to-1-or-2-decimal-places/)  [Significant figures](https://corbettmaths.com/2013/09/07/rounding-significant-figures/) | [Mixed exercise](https://corbettmaths.com/wp-content/uploads/2013/02/rounding-pdf.pdf)  [Significant figures](https://corbettmaths.com/wp-content/uploads/2013/02/significant-figures-pdf.pdf) | [Mixed exercise answers](https://corbettmaths.com/wp-content/uploads/2015/03/rounding.pdf)  [Significant figures answers](https://corbettmaths.com/wp-content/uploads/2019/06/significant-figures-answers.pdf) | [Nearest number](https://corbettmaths.com/wp-content/uploads/2013/02/round-to-nearest-number-pdf.pdf)  [Nearest 10, nearest 100](https://corbettmaths.com/wp-content/uploads/2018/09/Rounding-277-pdf.pdf)  [Decimal places](https://corbettmaths.com/wp-content/uploads/2019/01/Rounding-decimal-places-pdf.pdf)  [Significant figures](https://corbettmaths.com/wp-content/uploads/2013/02/rounding-significant-figures-pdf.pdf) | [Nearest number answers](https://corbettmaths.com/wp-content/uploads/2019/08/rounding.pdf)  [Nearest 10, nearest 100 answers](https://corbettmaths.com/wp-content/uploads/2019/10/Rounding-Video-277a-and-277b-Answers.pdf)  [Decimal places answers](https://corbettmaths.com/wp-content/uploads/2019/08/rounding-decimal-places.pdf)  [Significant figures answers](https://corbettmaths.com/wp-content/uploads/2019/08/rounding-sf.pdf) |
| Fractions | [Fractions of amounts](https://corbettmaths.com/2012/08/20/fractions-of-amounts/) | [Fractions of amounts](https://corbettmaths.com/wp-content/uploads/2013/02/fractions-of-amounts-pdf.pdf) | [Fractions of amounts answers](https://corbettmaths.com/wp-content/uploads/2015/03/fractions-of-amounts.pdf) | [Fractions of amounts](https://corbettmaths.com/wp-content/uploads/2013/02/fraction-of-an-amount-pdf2.pdf) | [Fractions of amounts answers](https://corbettmaths.com/wp-content/uploads/2019/08/fraction-of-amounts.pdf) |

**Week 3 – Decimals**

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|  | **Instructional videos** | **Practice questions** | **Answers** | **Exam type question** | **Answers** |
| Addition and Subtraction | [Addition](https://corbettmaths.com/2013/03/28/adding-decimals/)  [Subtraction](https://corbettmaths.com/2013/03/28/subtracting-decimals/) | [Mixed exercise](https://corbettmaths.com/wp-content/uploads/2013/02/decimals-addition-subtraction-pdf.pdf) | [Mixed exercise answers](https://corbettmaths.com/wp-content/uploads/2015/03/decimals-addition-subtraction.pdf) | [Addition](https://corbettmaths.com/wp-content/uploads/2018/09/Adding-Decimals-pdf.pdf)  [Subtraction](https://corbettmaths.com/wp-content/uploads/2018/09/Subtracting-Decimals-pdf.pdf) | [Addition answers](https://corbettmaths.com/wp-content/uploads/2018/09/Adding-Decimals-Answers.pdf)  [Subtraction answers](https://corbettmaths.com/wp-content/uploads/2018/09/Subtracting-Decimal-Answers.pdf) |
| Multiplication and Division | [Multiplication](https://corbettmaths.com/2013/02/15/multiplying-decimals-2/)  [Division](https://corbettmaths.com/2012/08/21/dividing-decimals-by-whole-numbers/) | [Mixed exercise](https://corbettmaths.com/wp-content/uploads/2013/02/decimals-multiplying-and-dividing.pdf) | [Mixed exercise answers](https://corbettmaths.com/wp-content/uploads/2015/03/decimals-division-multiplication.pdf) | [Multiplication](https://corbettmaths.com/wp-content/uploads/2018/01/multiplying-decimals-textbook-pdf.pdf)  [Division](https://corbettmaths.com/wp-content/uploads/2018/11/Dividing-Decimals-by-whole-numbers-pdf.pdf) | [Multiplication answers](https://corbettmaths.com/wp-content/uploads/2019/08/Multiplying-decimals.pdf)  [Division answers](https://corbettmaths.com/wp-content/uploads/2018/11/Dividing-Decimals-by-Whole-Numbers-answers.pdf) |
| Ordering | [Ordering](https://corbettmaths.com/2012/08/10/ordering-decimals-video/) | [Ordering](https://corbettmaths.com/wp-content/uploads/2013/02/ordering-decimals-pdf1.pdf) | [Ordering answers](https://corbettmaths.com/wp-content/uploads/2015/03/ordering-decimals.pdf) | [Ordering](https://corbettmaths.com/wp-content/uploads/2018/11/Ordering-Decimals-pdf.pdf) | [Ordering answers](https://corbettmaths.com/wp-content/uploads/2018/11/Ordering-Decimals-answers.pdf) |

**Week 4**

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| --- | --- | --- | --- | --- | --- |
|  | **Instructional videos** | **Practice questions** | **Answers** | **Exam type question** | **Answers** |
| Percentages | [Percentages (non-calculator)](https://corbettmaths.com/2012/08/20/percentages-of-amounts-non-calculator/)  [Percentages (calculator)](https://corbettmaths.com/2013/02/15/percentages-of-an-amount-calculator/) | [Percentages (non-calculator)](https://corbettmaths.com/wp-content/uploads/2013/02/percentage-of-an-amount-non-calculator-pdf1.pdf)  [Percentages (calculator)](https://corbettmaths.com/wp-content/uploads/2013/02/percentage-of-an-amount-calculator-pdf.pdf) | [Percentages (non-calculator) answers](https://corbettmaths.com/wp-content/uploads/2015/03/percentages-non-calc.pdf)  [Percentages (calculator) answers](https://corbettmaths.com/wp-content/uploads/2016/02/percentages-answers.pdf) | [Percentages (non-calculator)](https://corbettmaths.com/wp-content/uploads/2018/11/Percentages-of-amounts-234-pdf.pdf)  [Percentages (calculator)](https://corbettmaths.com/wp-content/uploads/2013/02/percentages-calc-pdf.pdf) | [Percentages (non-calculator) answers](https://corbettmaths.com/wp-content/uploads/2018/11/Percentage-of-an-amount-non-calc.pdf)  [Percentages (calculator) answers](https://corbettmaths.com/wp-content/uploads/2019/08/Percentage-of-amount-calc.pdf) |
| Fractions, decimals and percentages | [Key equivalents](https://corbettmaths.com/2013/04/24/key-fractions-decimals-and-percentages/) | [Key equivalents](https://corbettmaths.com/wp-content/uploads/2013/02/fractions-decimals-percentages-pdf.pdf) | [Key equivalents answers](https://corbettmaths.com/wp-content/uploads/2019/03/FDP.pdf) | [Key equivalents](https://corbettmaths.com/wp-content/uploads/2019/01/FDP-Key-Equivalents-pdf.pdf) | [Key equivalents answers](https://corbettmaths.com/wp-content/uploads/2019/01/FDP-Key-Equivalents-Answers.pdf) |
| Time intervals | [Timetables](https://corbettmaths.com/2012/08/10/timetables/)  [Time calculations](https://corbettmaths.com/2013/10/24/calculations-involving-time/) | [Timetables and time calculations](https://corbettmaths.com/wp-content/uploads/2013/02/timetables-pdf.pdf) | [Timetables and time calculations answers](https://corbettmaths.com/wp-content/uploads/2016/02/time-answers.pdf) | [Timetables](https://corbettmaths.com/wp-content/uploads/2018/11/Timetables-pdf.pdf)  [Time calculations](https://corbettmaths.com/2019/10/10/time-calculations-textbook-exercise/) | [Timetables answers](https://corbettmaths.com/wp-content/uploads/2018/11/Timetables-answers-pdf-1.pdf)  [Time calculations answers](https://corbettmaths.com/wp-content/uploads/2019/10/Time-Answers.pdf) |