

## Year 7 Maths Oak Academy Work - Spring Term 1

8 - Fraction and Percentages of Amounts	Hegarty	Oak Academy Link
Find a fraction of a given amount.	77	<a href="https://classroom.thenational.academy/lessons/multiplying-non-unit-fractions-with-integers-70rker">https://classroom.thenational.academy/lessons/multiplying-non-unit-fractions-with-integers-70rker</a>
Use a given fraction to find the whole amount or other fractions.	79	<a href="https://classroom.thenational.academy/lessons/equal-parts-of-a-whole-6gv38c">https://classroom.thenational.academy/lessons/equal-parts-of-a-whole-6gv38c</a>
Find a percentage of an amount using mental methods.	84, 85	<a href="https://classroom.thenational.academy/lessons/percentages-of-amount-6nj68r">https://classroom.thenational.academy/lessons/percentages-of-amount-6nj68r</a>
Find a percentage of a given amount using a calculator.	86, 87	<a href="https://classroom.thenational.academy/lessons/decimal-multipliers-64w3et">https://classroom.thenational.academy/lessons/decimal-multipliers-64w3et</a>
Solve problems with fractions greater than 1 and percentages greater than 100%		<a href="https://classroom.thenational.academy/lessons/adding-mixed-numbers-6mu3jc">https://classroom.thenational.academy/lessons/adding-mixed-numbers-6mu3jc</a>

9 - Operations and Equations with Directed Numbers	Hegarty	Oak Academy Link
Understand and use representations of directed numbers.		<a href="https://classroom.thenational.academy/lessons/negative-numbers-in-context-68t66c">https://classroom.thenational.academy/lessons/negative-numbers-in-context-68t66c</a>
Order directed number using lines and appropriate symbols e.g. < and >	37	<a href="https://classroom.thenational.academy/lessons/using-comparative-symbols-to-compare-numbers-6cupct">https://classroom.thenational.academy/lessons/using-comparative-symbols-to-compare-numbers-6cupct</a>
Perform calculations that cross zero.	38	See add and subtract directed numbers
Add directed numbers.	39	<a href="https://classroom.thenational.academy/lessons/adding-directed-numbers-chjk4t">https://classroom.thenational.academy/lessons/adding-directed-numbers-chjk4t</a>
Subtract directed numbers.	40, 41	<a href="https://classroom.thenational.academy/lessons/subtract-directed-numbers-cgu3gc">https://classroom.thenational.academy/lessons/subtract-directed-numbers-cgu3gc</a>
Multiply directed numbers.	42	<a href="https://classroom.thenational.academy/lessons/multiply-and-divide-directed-numbers-c9j62c">https://classroom.thenational.academy/lessons/multiply-and-divide-directed-numbers-c9j62c</a>
Divide directed numbers.	43	See multiply directed numbers
Use a calculator for directed number calculations.		N/A

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Evaluate algebraic expressions with directed number.	784	<a href="https://classroom.thenational.academy/lessons/expressions-and-variables-ccrk6d">https://classroom.thenational.academy/lessons/expressions-and-variables-ccrk6d</a>
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10 - Addition and Subtracting of Fractions	Hegarty	Oak Academy Link
Understand representations of fractions.		<a href="https://classroom.thenational.academy/lessons/fractions-and-units-of-measure-6nh36t">https://classroom.thenational.academy/lessons/fractions-and-units-of-measure-6nh36t</a>
Convert between mixed numbers and fractions.	63, 64	<a href="http://corbettmaths.com/2013/02/15/improper-fractions-to-mixed-numbers/">http://corbettmaths.com/2013/02/15/improper-fractions-to-mixed-numbers/</a>
		<a href="https://corbettmaths.com/wp-content/uploads/2013/02/top-heavy-mixed-numbers-pdf.pdf">https://corbettmaths.com/wp-content/uploads/2013/02/top-heavy-mixed-numbers-pdf.pdf</a>
Add and subtract unit fractions with the same denominator.		See add and subtract fractions with the same denominator
Add and subtract fractions with the same denominator.	65	<a href="https://classroom.thenational.academy/lessons/adding-and-subtracting-fractions-part-1-75h66d">https://classroom.thenational.academy/lessons/adding-and-subtracting-fractions-part-1-75h66d</a>
Add and subtract fractions with integers, expressing the answer as a single fraction.		See add and subtract fractions with the same denominator
Understand and use equivalent fractions.	59	<a href="https://classroom.thenational.academy/units/equivalent-fractions-2654">https://classroom.thenational.academy/units/equivalent-fractions-2654</a>
Add and subtract fractions where denominators share a simple common multiple.		<a href="https://classroom.thenational.academy/lessons/adding-and-subtracting-fractions-part-2-6wu30c">https://classroom.thenational.academy/lessons/adding-and-subtracting-fractions-part-2-6wu30c</a>
Add and subtract fractions with any denominator.	66	<a href="https://classroom.thenational.academy/lessons/adding-and-subtracting-fractions-part-3-70r6cd">https://classroom.thenational.academy/lessons/adding-and-subtracting-fractions-part-3-70r6cd</a>

11- Construction and Measuring	Hegarty	Oak Academy Link
Understand and use letter and labelling conventions for sides and angles.	456	N/A

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Draw and measure line segments including geometric figures.		<a href="https://classroom.thenational.academy/lessons/to-draw-2-d-shapes-based-on-their-properties-6xgk2c">https://classroom.thenational.academy/lessons/to-draw-2-d-shapes-based-on-their-properties-6xgk2c</a>
Understand angles as a measure of turn.	457	<a href="https://classroom.thenational.academy/lessons/to-identify-and-recognise-angles-cgu6cc">https://classroom.thenational.academy/lessons/to-identify-and-recognise-angles-cgu6cc</a>
Classify angles.	455	<a href="https://classroom.thenational.academy/lessons/recognise-acute-and-obtuse-angles-cgr34d">https://classroom.thenational.academy/lessons/recognise-acute-and-obtuse-angles-cgr34d</a>
Measure angles up to 180 degrees.	458	<a href="https://classroom.thenational.academy/lessons/measuring-and-drawing-angles-cnk38d">https://classroom.thenational.academy/lessons/measuring-and-drawing-angles-cnk38d</a>
Draw angles up to 180 degrees.	461	See measure angles up to 180 degrees
Draw and measure angles between 180 and 360 degrees.	459, 460, 461	See measure angles up to 180 degrees
Identify parallel and perpendicular lines.	456	<a href="https://classroom.thenational.academy/lessons/to-identify-perpendicular-lines-cguk0r">https://classroom.thenational.academy/lessons/to-identify-perpendicular-lines-cguk0r</a> <a href="https://classroom.thenational.academy/lessons/to-identify-and-explain-parallel-lines-cdh3ct">https://classroom.thenational.academy/lessons/to-identify-and-explain-parallel-lines-cdh3ct</a>
Recognise types of triangles.	823	<a href="https://classroom.thenational.academy/lessons/classifying-triangles-6rv3cc">https://classroom.thenational.academy/lessons/classifying-triangles-6rv3cc</a>

12 - Geometric Reasoning	Hegarty	Oak Academy Link
Understand and use the sum of angles at a point.	812, 813, 814	<a href="https://classroom.thenational.academy/lessons/find-missing-angles-around-a-point-and-on-a-straight-line-c9k32c">https://classroom.thenational.academy/lessons/find-missing-angles-around-a-point-and-on-a-straight-line-c9k32c</a>
Understand and use the sum of angles on a straight line.	477, 478	See understand and use the sum of angles at a point
Understand and use the equality of vertically opposite angles.	480	<a href="https://classroom.thenational.academy/lessons/transversal-angles-crw38t">https://classroom.thenational.academy/lessons/transversal-angles-crw38t</a>

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Know and apply the sum of angles in a triangle.	485, 486, 487	<a href="https://classroom.thenational.academy/lessons/find-missing-angles-in-a-triangle-6cvk4t">https://classroom.thenational.academy/lessons/find-missing-angles-in-a-triangle-6cvk4t</a>
Know and apply the sum of angles in a quadrilateral.	561	<a href="https://classroom.thenational.academy/lessons/internal-angles-in-a-quadrilateral-cguk8t">https://classroom.thenational.academy/lessons/internal-angles-in-a-quadrilateral-cguk8t</a>
Solve angle problems involving properties of triangles and quadrilaterals.	488	<a href="https://classroom.thenational.academy/lessons/calculating-angles-within-a-shape-1-65h3ar">https://classroom.thenational.academy/lessons/calculating-angles-within-a-shape-1-65h3ar</a>
Solve complex angle problems.	489	<a href="https://classroom.thenational.academy/lessons/calculating-angles-within-a-shape-part-2-60u3jr">https://classroom.thenational.academy/lessons/calculating-angles-within-a-shape-part-2-60u3jr</a> <a href="https://classroom.thenational.academy/lessons/calculating-angles-within-a-shape-3-c5h3jr">https://classroom.thenational.academy/lessons/calculating-angles-within-a-shape-3-c5h3jr</a>