

# Year 6 spring home learning overview 2020-21

1 Spring term 2020-21					
Chapter 4: Decimals					
INSET day	Recap multiplying decimals or complete Lesson 8: Multiplying Decimals To multiply decimals by whole numbers (Use L9 as deepening)	Lesson 10: Dividing Decimals To divide decimals using number bonds and number discs as the key strategies. (Method 2)	Lesson 11: Dividing Decimals To divide decimals using bar models, number bonds and long division as key strategies,	Lesson 12: Multiplying a Decimal by a 2-Digit Whole Number To multiply decimals by a 2-digit whole number	Lesson 13: Dividing a Decimal by a 2-Digit Whole Number To divide decimals by 2-digit numbers using number bonds and the worded method.
	<b>Learn the strategy:</b> <a href="https://classroom.thenational.academy/lessons/use-formal-written-methods-for-short-multiplication-including-multiplying-decimals-6rvp2r?step=2&amp;activity=video">https://classroom.thenational.academy/lessons/use-formal-written-methods-for-short-multiplication-including-multiplying-decimals-6rvp2r?step=2&amp;activity=video</a>  <a href="https://classroom.thenational.academy/lessons/multiplying-decimals-by-a-whole-number-6xjkr?step=2&amp;activity=video">https://classroom.thenational.academy/lessons/multiplying-decimals-by-a-whole-number-6xjkr?step=2&amp;activity=video</a>	<b>Learn the strategy:</b> <a href="https://classroom.thenational.academy/lessons/multiplying-decimals-by-a-whole-number-6xjkr?step=2&amp;activity=video">https://classroom.thenational.academy/lessons/multiplying-decimals-by-a-whole-number-6xjkr?step=2&amp;activity=video</a>  <a href="https://classroom.thenational.academy/lessons/division-of-a-decimal-number-by-an-integer-c8t30e?step=2&amp;activity=video">https://classroom.thenational.academy/lessons/division-of-a-decimal-number-by-an-integer-c8t30e?step=2&amp;activity=video</a>		<b>Learn the strategy: (from 19 minutes)</b> <a href="https://classroom.thenational.academy/lessons/multiply-by-a-two-digit-number-using-long-multiplication-75k3cc?step=2&amp;activity=video">https://classroom.thenational.academy/lessons/multiply-by-a-two-digit-number-using-long-multiplication-75k3cc?step=2&amp;activity=video</a>	<b>Learn the strategy:</b> <b>Use the long division strategy:</b> <a href="https://classroom.thenational.academy/lessons/use-the-formal-written-method-of-long-division-to-solve-appropriate-calculations-c8wk0c?step=2&amp;activity=video">https://classroom.thenational.academy/lessons/use-the-formal-written-method-of-long-division-to-solve-appropriate-calculations-c8wk0c?step=2&amp;activity=video</a>  <a href="https://www.khanacademy.org/math/cc-sixth-grade-math/cc-6th-arithmetic-operations/cc-6th-dividing-decimals/v/dividing-a-decimal-by-a-whole-number">https://www.khanacademy.org/math/cc-sixth-grade-math/cc-6th-arithmetic-operations/cc-6th-dividing-decimals/v/dividing-a-decimal-by-a-whole-number</a>
2 Chapter 4: Decimals			Chapter 5: Measurements		
Lesson 14: Dividing a Decimal by a 2-Digit Whole Number To divide decimals by 2-digit whole numbers	Addition and subtraction strategies and links	Recap year 5 measurement: Bk 5B, Chapter 11: Lesson 3: Converting Units of Length To convert units of length.	Recap year 5 measurement: Bk 5B, Chapter 11: Lesson 7: Converting Units of Mass To convert units of mass.	Lesson 1: Converting Units of Length To convert common measurements to metres, centimetres and millimetres.	Lesson 2: Converting Units of Length To convert units of measure into different units using decimals and fractions
<b>Learn the strategy:</b> <b>Use the long division strategy:</b> <a href="https://classroom.thenational.academy/lessons/use-the-formal-written-method-of-long-division-to-solve-appropriate-calculations-c8wk0c?step=2&amp;activity=video">https://classroom.thenational.academy/lessons/use-the-formal-written-method-of-long-division-to-solve-appropriate-calculations-c8wk0c?step=2&amp;activity=video</a>  <a href="https://www.khanacademy.org/math/cc-sixth-grade-math/cc-6th-arithmetic-operations/cc-6th-dividing-decimals/v/dividing-a-decimal-by-a-whole-number">https://www.khanacademy.org/math/cc-sixth-grade-math/cc-6th-arithmetic-operations/cc-6th-dividing-decimals/v/dividing-a-decimal-by-a-whole-number</a>	<b>Complete the online lesson:</b> <b>Addition:</b> <a href="https://classroom.thenational.academy/lessons/strategies-for-addition-6nj4d">https://classroom.thenational.academy/lessons/strategies-for-addition-6nj4d</a> <b>Subtraction:</b> <a href="https://classroom.thenational.academy/lessons/strategies-for-subtraction-6mv32d">https://classroom.thenational.academy/lessons/strategies-for-subtraction-6mv32d</a>	<b>Learn the strategy:</b> <a href="https://classroom.thenational.academy/lessons/converting-lengths-part-1-cgr3jd?step=2&amp;activity=video">https://classroom.thenational.academy/lessons/converting-lengths-part-1-cgr3jd?step=2&amp;activity=video</a>  <a href="https://classroom.thenational.academy/lessons/converting-lengths-part-2-64ukar?step=2&amp;activity=video">https://classroom.thenational.academy/lessons/converting-lengths-part-2-64ukar?step=2&amp;activity=video</a>	<b>Learn the strategy:</b> <a href="https://classroom.thenational.academy/lessons/converting-between-units-of-metric-mass-6ww38d?step=2&amp;activity=video">https://classroom.thenational.academy/lessons/converting-between-units-of-metric-mass-6ww38d?step=2&amp;activity=video</a>	<b>Learn the strategy: (up to 23 minutes and 18 seconds)</b> <a href="https://classroom.thenational.academy/lessons/decimals-and-measures-convert-standard-lengths-60tkad?step=2&amp;activity=video">https://classroom.thenational.academy/lessons/decimals-and-measures-convert-standard-lengths-60tkad?step=2&amp;activity=video</a>	
3 Chapter 5: Measurements					
Lesson 3: Converting Units of Length To convert metres into kilometres as units of measure.	Lesson 4: Converting Units of Mass To convert units of mass from grams to kilograms using decimals and fractions.	Lesson 5: Converting Units of Volume To convert units of volume from millilitres to litres.	Converting units of time	Recap year 5 measurement: Bk 5B, Chapter 11: Lesson 14: Telling the Temperature (incl. negative)	Recap rounding
<b>Learn the strategy:(from 23 minutes and 19 seconds)</b> <a href="https://classroom.thenational.academy/lessons/decimals-and-measures-convert-standard-lengths-60tkad?step=2&amp;activity=video">https://classroom.thenational.academy/lessons/decimals-and-measures-convert-standard-lengths-60tkad?step=2&amp;activity=video</a>	<b>Learn the strategy:</b> <a href="https://classroom.thenational.academy/lessons/decimals-and-measures-convert-between-standard-measures-6cupac?step=2&amp;activity=video">https://classroom.thenational.academy/lessons/decimals-and-measures-convert-between-standard-measures-6cupac?step=2&amp;activity=video</a>	<b>Learn the strategy:</b> <a href="https://classroom.thenational.academy/lessons/converting-measurements-cdj62t?step=2&amp;activity=video">https://classroom.thenational.academy/lessons/converting-measurements-cdj62t?step=2&amp;activity=video</a>	<b>Complete the online lesson:</b> <a href="https://classroom.thenational.academy/lessons/decimals-and-measures-convert-between-units-of-time-c4r66c?step=1&amp;activity=video">https://classroom.thenational.academy/lessons/decimals-and-measures-convert-between-units-of-time-c4r66c?step=1&amp;activity=video</a>	<b>Learn the strategy:</b> <a href="https://classroom.thenational.academy/lessons/negative-numbers-in-context-68t66c?step=1&amp;activity=video">https://classroom.thenational.academy/lessons/negative-numbers-in-context-68t66c?step=1&amp;activity=video</a>  <a href="https://classroom.thenational.academy/lessons/further-addition-6rwk2t?step=2&amp;activity=video">https://classroom.thenational.academy/lessons/further-addition-6rwk2t?step=2&amp;activity=video</a>	<b>Recap addition and subtraction in context</b>  <b>Complete the online lessons:</b> <b>Rounding:</b> <a href="https://classroom.thenational.academy/lessons/rounding-to-a-required-degree-of-accuracy-6wu32t">https://classroom.thenational.academy/lessons/rounding-to-a-required-degree-of-accuracy-6wu32t</a> <b>Addition and subtraction:</b> <a href="https://classroom.thenational.academy/lessons/applying-addition-and-subtraction-74tp2d">https://classroom.thenational.academy/lessons/applying-addition-and-subtraction-74tp2d</a>

# Year 6 spring home learning overview 2020-21

4		Chapter 7: Percentage			
MNP Year 6 mid-year revision 6A assessment	MNP Year 6 mid-year revision 6A assessment	Order of operations	Recap year 5 percentages: Bk 5B, Chapter 8, Lesson 2: Finding Percentages To be able to convert values of an amount into %. To be able to convert fractions into percentages.	Lesson 1: Finding the Percentage of a Number To find the % of a whole number using division and multiplication; to use bar modelling as a pictorial approach to calculating %.	Lesson 2: Finding the Percentage of a Quantity To find the % of a quantity; to use bar model diagrams to support the division and multiplication of numbers towards the percentage.
Complete workbook 6A mid-year revision section A and part of section B. Questions 1 - 25	Complete workbook 6A mid-year revision remainder of section B and section C. Questions 26 - 45	Learn the strategy: Complete the online lesson: <a href="https://classroom.thenational.academy/lessons/order-of-operations-ctk3et">https://classroom.thenational.academy/lessons/order-of-operations-ctk3et</a>	Learn the strategy: <a href="https://classroom.thenational.academy/lessons/understanding-percentage-6qvpad?step=2&amp;activity=video">https://classroom.thenational.academy/lessons/understanding-percentage-6qvpad?step=2&amp;activity=video</a>	Learn the strategy: <a href="https://classroom.thenational.academy/lessons/finding-percent-of-a-quantity-6xh36d?step=2&amp;activity=video">https://classroom.thenational.academy/lessons/finding-percent-of-a-quantity-6xh36d?step=2&amp;activity=video</a>	Learn the strategy:(up to 5 minutes and 34 seconds) <a href="https://classroom.thenational.academy/lessons/percentages-of-amount-part-2-c9j66c?step=2&amp;activity=video">https://classroom.thenational.academy/lessons/percentages-of-amount-part-2-c9j66c?step=2&amp;activity=video</a> Method 3: (up to 4 minutes and 49 seconds) <a href="https://classroom.thenational.academy/lessons/percentages-of-amount-6nj68r?step=2&amp;activity=video">https://classroom.thenational.academy/lessons/percentages-of-amount-6nj68r?step=2&amp;activity=video</a>
5 Chapter 7: Percentage		Chapter 8: Ratio			
Lesson 3: Finding Percentage Change To find % change in an amount over time; to calculate % change where the number gives rise to a decimal.	Problem solving with percentages:	Fractions, decimals and equivalence problems	Lesson 2: Comparing Quantities To find ratio of a quantity; to simplify ratios using division; compare more than two quantities using the term 'ratio'; to use bar models.	Lesson 3: Comparing Quantities To find ratio of a quantity; to simplify ratios using division; compare more than two quantities using the term 'ratio'; to use bar models.	Lesson 4: Comparing Quantities To compare quantity using both fractions and ratios; to use bar model diagrams to represent ratios.
Learn the strategy: <a href="https://classroom.thenational.academy/lessons/solve-problems-involving-the-calculation-of-percentages-of-amounts-c5gkge">https://classroom.thenational.academy/lessons/solve-problems-involving-the-calculation-of-percentages-of-amounts-c5gkge</a> (up to 2 minutes and 8 seconds) <a href="https://classroom.thenational.academy/lessons/increase-by-a-percentage-69h68c?step=2&amp;activity=video">https://classroom.thenational.academy/lessons/increase-by-a-percentage-69h68c?step=2&amp;activity=video</a>	Learn the strategy: Complete the online lesson <a href="https://classroom.thenational.academy/lessons/solve-problems-involving-the-use-of-percentages-for-comparison-6mtk6t">https://classroom.thenational.academy/lessons/solve-problems-involving-the-use-of-percentages-for-comparison-6mtk6t</a>	Learn the strategy: Complete the online lesson <a href="https://classroom.thenational.academy/lessons/recall-and-use-equivalences-between-fractions-decimals-and-percentages-6dh6cc">https://classroom.thenational.academy/lessons/recall-and-use-equivalences-between-fractions-decimals-and-percentages-6dh6cc</a>	Learn the strategy: <a href="https://www.khanacademy.org/math/pre-algebra/pre-algebra-ratios-rates/pre-algebra-ratios-intro/v/ratios-intro">https://www.khanacademy.org/math/pre-algebra/pre-algebra-ratios-rates/pre-algebra-ratios-intro/v/ratios-intro</a>	Learn the strategy: <a href="https://classroom.thenational.academy/lessons/use-ratio-to-express-relationships-70tpad?step=2&amp;activity=video">https://classroom.thenational.academy/lessons/use-ratio-to-express-relationships-70tpad?step=2&amp;activity=video</a>	
6 Chapter 8: Ratio		Chapter 9: Algebra		Revisit	Catch up time
Lesson 6: Comparing Numbers To compare numbers using ratios; to make decisions about simplifying ratios using division	Problem solving using ratio and scaling	Lesson 2: Describing a Pattern To generate and describe number patterns. (Could also do worksheets 3)	Lesson 5: Writing Algebraic Expressions To express algebraically a missing number. (Could also do worksheets L4)	Revisit as needed: Multiplication and division (including multi-step word problems and measures)	
Learn the strategy: <a href="https://classroom.thenational.academy/lessons/solve-problems-involving-the-relative-size-of-two-quantities-part-1-68r6ac?step=2&amp;activity=video">https://classroom.thenational.academy/lessons/solve-problems-involving-the-relative-size-of-two-quantities-part-1-68r6ac?step=2&amp;activity=video</a>	Learn the strategy: Complete the online lesson <a href="https://classroom.thenational.academy/lessons/ratio-problems-c5hk4r">https://classroom.thenational.academy/lessons/ratio-problems-c5hk4r</a>	Learn the strategy: <a href="https://classroom.thenational.academy/lessons/consolidating-linear-sequences-and-representing-problems-with-algebra-71j3gr?step=2&amp;activity=video">https://classroom.thenational.academy/lessons/consolidating-linear-sequences-and-representing-problems-with-algebra-71j3gr?step=2&amp;activity=video</a>	Learn the strategy: <a href="https://classroom.thenational.academy/lessons/reasoning-and-problem-solving-6mwkct?step=2&amp;activity=video">https://classroom.thenational.academy/lessons/reasoning-and-problem-solving-6mwkct?step=2&amp;activity=video</a>	Learn the strategy: Complete the online lesson <a href="https://classroom.thenational.academy/lessons/solve-problems-involving-division-with-remainders-part-1-6hjp6t">https://classroom.thenational.academy/lessons/solve-problems-involving-division-with-remainders-part-1-6hjp6t</a>	