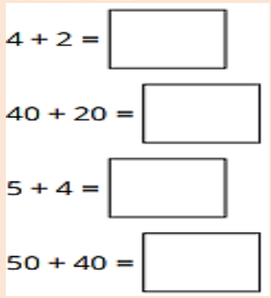
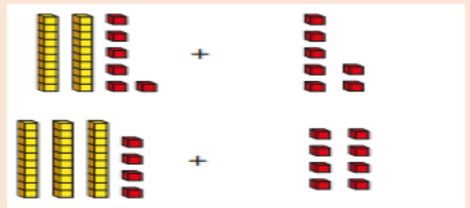
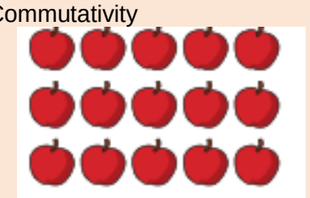
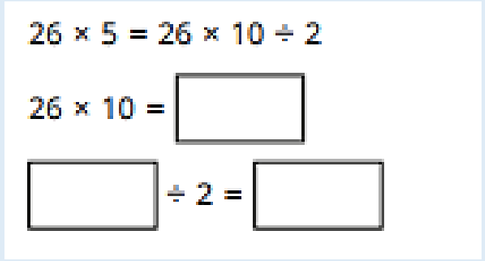
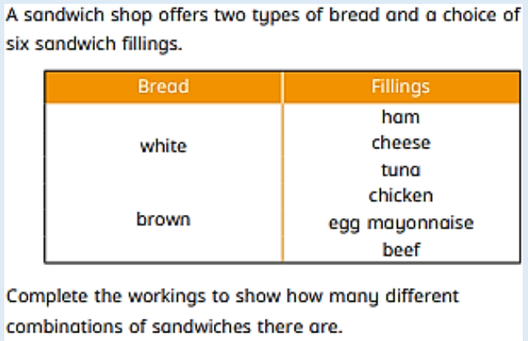
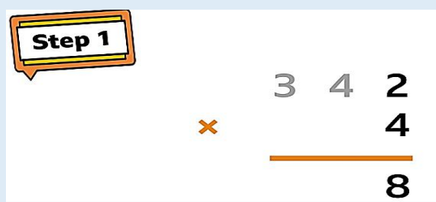
Cycle B White Rose Whole School Spring 1

	Year R	Year 1/2	Year 3/4	Year 5/6
Spring 1	**Alive in 5!** • Introducing zero  • Comparing numbers to 5 • Recognising a group has 5 objects without counting • I more/1less • Conceptual subitising to 5 When you see **5 dots**, you might see **2 and 3** or **4 and 1**! ◯◯ + ◯◯◯ = 5 	Addition and Subtraction • Related facts  4 + 2 = ☐ 40 + 20 = ☐ 5 + 4 = ☐ 50 + 40 = ☐ • Add and subtract 1 • Add to the next 10 • Add across a 10 • Subtract across 10 • Add and subtract 10s • Add/subtract two-digit numbers not crossing tens  • Add/subtract two-digit number across 10 as well as mixed +/- • Compare numbers • Missing number problems. Multiplication and division • Count in 2s, 5s and 10s • Count in 3s • Recognise equal groups • Add and make equal groups • Make arrays Multiplication sentences 3 x 2 = • Commutativity 	**Multiplication and Division B** • Factor pairs • Multiply and divide by 10 and 100 • Reasoning about multiplication • Multiply three numbers • Efficient multiplication  26 × 5 = 26 × 10 ÷ 2 26 × 10 = ☐ ☐ ÷ 2 = ☐ • <u>Scaling</u>  • Correspondence problems Multiply up to a 3-digit number by a 1-digit number – no exchange  A sandwich shop offers two types of bread and a choice of six sandwich fillings. Bread: white — Fillings: ham, cheese, tuna Bread: brown — Fillings: chicken, egg mayonnaise, beef Complete the workings to show how many different combinations of sandwiches there are. • Related calculations – multiplication and division • Divide by a 1-digit number – flexible partitioning • Divide up to a 3-digit number by a 1-digit number – no exchange • Divide up to a 3-digit number by a 1-digit number – with exchange • Divide up to a 3-digit number by a 1-digit number – with remainders  	**Continued** • Division using factors • Long division with remainders • Solve problems with division • Efficient division • Sol multi-step problems • Order of operations • Mental calculations and estimating • Reason from known facts **Fractions B** • Multiply a unit fraction by an integer • Multiply a mixed number by an integer • Multiply fractions by fractions • Divide a fraction by an integer • Divide any fraction by an integer • Fraction of an amount • Fractions of an amount – find the whole. **Decimals A** • Decimals up to decimal places • Decimals up to 3 decimal places • Place value – integers and decimals • Order and compare decimals (same number of d.p • Order and compare decimals with up to 3 decimals places • Round to the nearest whole number • Round to 1 decimal places • Round to 2 decimal places

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		• (Commutativity is a property in math that means the order in which you do something doesn't matter.) 4x6 or 6x4 • Making equal groups/sharing • The 2 times table • Divide by 2 Doubling and halving Odd and even 10/5 times tables 10/5 dividing	**Length and Perimeter** • Measuring in cm and mm • Measure in km and m • Equivalent lengths • Add and subtract lengths • What is perimeter • Calculate perimeter • Perimeters of rectilinear shapes • Calculate perimeter of a rectilinear shape • Perimeter of polygons	