

Activity name	Learning objectives	Managing the homework
A1		
<p>Divide me Estimate first, then divide a number by U or TU to reach a given target.</p>	Use approximations, inverse operations and tests of divisibility to estimate and check results	<p>Before: Remind the children of the importance of estimating before carrying out calculations.</p> <p>After: Check through some of the children's answers. How did estimating first help them to decide which pair of numbers to divide?</p>
<p>Positive and negative Use a number line to solve number sequence problems involving positive and negative integers.</p>	Find the difference between a positive and a negative integer, or two negative integers	<p>Before: Revise positive/negative number work. Remind the children to use the number line to physically count the steps.</p> <p>After: Work through the answers. Which problems did the children find easiest/hardest? Discuss everyday uses of positive/negative numbers.</p>
<p>Guitar Genius Order decimals with up to three places in the context of a computer game.</p>	Order decimals with up to three places, and position them on the number line	<p>Before: Brief the children on the technique for ordering decimals.</p> <p>After: Check the answers with the class. Discuss any problems encountered.</p>
<p>Decimal dash! Multiply and divide decimals in the context of a speed test.</p>	Use knowledge of place value and multiplication facts to 10×10 to derive related multiplication and division facts involving decimals (for example, 0.8×7 , $4.8 \div 6$)	<p>Before: Tell the children that they will use their knowledge of multiplication and related division facts to complete this activity.</p> <p>After: Go through the answers and compare times for successfully completed tests.</p>
A2		
<p>One of each Pair numbers and multiply them on the calculator to find given totals.</p>	<ul style="list-style-type: none"> Solve problems involving decimals; choose and use appropriate calculation strategies, including calculator use Use a calculator to solve problems 	<p>Before: Explain that one number has to be taken from each set of shapes to make the given total. Encourage the children to make a sensible guess first. Check that calculators are available at home.</p> <p>After: Check through the solutions. How accurate were the estimates? How did the estimates help the children to find the correct numbers?</p>
<p>On the grid Approximate first and then use the grid method to work through examples of $HTU \times TU$.</p>	Use efficient written methods to multiply three-digit integers by a two-digit integer	<p>Before: Ensure that the children fully understand the grid method. Work through the example on the sheet.</p> <p>After: Discuss the advantages and disadvantages of the grid method. How does it compare with other methods the children have tried?</p>
<p>What's missing? Look carefully at word problems and decide what information needs to be added in order to find each solution. Complete the calculations using own information.</p>	Solve multi-step problems and problems involving decimals; choose and use appropriate calculation strategies at each stage, including calculator use	<p>Before: Revise the step-by-step approach used for solving problems. Remind the children that they will have to provide some of their own numbers to find the solution.</p> <p>After: Check through the information the children provided themselves. How many variations are there for each question? Discuss the methods used to find solutions.</p>
<p>Missing digits Substitute missing digits in number sentences involving decimal numbers.</p>	Use efficient written methods to multiply and divide integers and decimals by a one-digit integer, and to multiply two-digit and three-digit integers by a two-digit integer	<p>Before: Ensure that the children have a clear understanding of the four operations using decimal numbers. Talk to them about finding missing numbers, often using the inverse operation.</p> <p>After: Go through the questions and discuss the various strategies the children used. How did they check their answers?</p>