Multiplication and Division: Teamwork

Aim:	Success Criteria:	Resources:
Practise to become fluent in the formal written method of short division with exact answers (non-statutory). I can use short division to solve problems.	I can read the problem carefully and find the important information. I can use short division to calculate the answer. I can work out any remainders. I can interpret remainders to answer the question.	Lesson Pack Whiteboards and pens – class set
	Key/New Words: Written method, division, calculation, divide, remainders, carry, divisor, dividend.	Preparation: Differentiated Teamwork Activity Sheet – 1 per child Multiplication Squares – as required

Prior Learning:	It will be helpful if the children know the multiplication and division facts up to 12 × 12 and can use the short written method of division with and without remainders (covered in Written Methods of Division (1): Short Division and Written Methods of Division (2): Remainders).

Learning Sequence

Teams: The children have to use their times tables knowledge to split a class of 32 into teams of different sizes. Which numbers give equal teams? Do any of the numbers leave a remainder?

Solving Word Problems: Explain that the children will be using short division to solve word problems. Look at an example of a word problem. Can the children read the problem carefully and find the important information?

Practise: The children work independently or in pairs solving the problems on the Lesson Presentation. Work through each problem and discuss how to solve it using the method described. Encourage the children to discuss their ideas and identify their mistakes.

Teamwork: Emphasise the need to consider the context carefully to decide whether to use rounding or remainders, using the examples on the Lesson Presentation to model this.

Teamwork Activities: Children complete the differentiated Teamwork Activity Sheets, using short division to solve word problems and interpreting remainders in context.

★ Children solve word problems using the short method to divide two-digit numbers by one-digit numbers.	★★ Children solve word problems using the short method to divide three-digit numbers by one-digit numbers.	★★★ Children solve more complex word problems using the short method to divide three-digit numbers by one-digit numbers.

True or False Quiz: Children sort themselves into teams of four and play the quiz on the Lesson Presentation, calculating the answers using short division. The teams stand up if the answer is true and sit down if the answer is false.

Masterit

Writeit: Children write their own word problems to go with a division number sentence, including remainders.

Watchit: Children watch this BBC video and write a brief summary or explain to a friend what they learnt.

Researchit: Children find out about Olympic team sports. Which team sports have the largest teams? Which have the smallest?