## END OFYEAR

OBJECTIVES
Y5: Refine and use
efficient written methods to multiply HTU $\times \mathrm{U}, \mathrm{TU} \times$ TU,
U.t $\times \mathrm{U}$

Y6: Use efficient written
methods to multiply
integers and decimals
by a one-digit integer
and to multiply two-
digit and three-digit integers by a two-digit integer

WHAT YOU NEED

- Photocopiable
page 43 for each pupil - Writing equipment

- Instant recall of
tables up to $10 \times 10$
makes multiplying
numbers very easy.
Everyone should know
these tables up to $10 \times 10$.
- It is essential that you line up the digits in the correct columns when doing written calculations.
- This skill needs to be installed in the brain like software on a computer! The children should be able to do these calculations on 'automatic pilot'.


## A WRITTEN METHOD FOR MULTIPLICATION

## INTRODUCTION

- Ask the class what the routine is when tackling a calculation. (Estimate, Calculate, Check)
- Remind the class that they need to learn a reliable written method of multiplication.


## WHOLE CLASS TEACHING

■ Ask for two two-digit numbers which you are going to multiply. Ask the class for estimates for the answer. Multiply them together using the column method explaining the process as you go. Check the answer and review the estimates - which was closest?

- Repeat the exercise until everyone feels confident using the column method.

■ Periodically stop the group and ask them to think about the value of the digits they are multiplying.

■ Ask if anyone has got a good method for estimating. Show the class the rounding method (covered in a later lesson). Write $32 \times 87$ on the board. Round to $30 \times 90$ and with your knowledge of tables you can estimate an answer of 2700. Calculate using the column method to give an answer of 2784. Your answer is very close to your estimate!

■ Explain that instant recall of the tables makes multiplying any numbers very easy. You could demonstrate this by asking for a six-digit number and multiplying it by a single-digit number, explaining that you never need to go beyond the range of $9 \times 9$. Anyone who needs to practise their tables should make it their top priority when revising at home.

■ Set the class to work on photocopiable page 43.

## REVIEW

■ Go over any questions which have caused difficulty.
■ Try to ensure that everyone is happy with the column method for multiplication. Anyone who is still unsure, needs to practise more!


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QUICK FIX FORYEAR 6: MATHS

