

Write the following notes neatly in your Math notebook. Then complete the practice problems and send a clear picture of your working to your teacher via WhatsApp.

Name:

Thursday 13<sup>th</sup> January 2022

Mathematics

Multiplying by Two Digit Numbers

Remember that multiplication is a quick way to add large numbers repeatedly. Use the Mnemonic below (**M**any **Z**oos **M**any **A**nimals) to help you remember the steps for multiplying by two digit numbers.

The image shows a handwritten guide for multiplying by two-digit numbers. At the top, the mnemonic is written: **M**any **Z**oos... **M**any **A**nimals! Below this, the steps are listed: Step 1: Multiply (red), Step 2: Zero (blue, with a note 'this allows us to move to the tens place'), Step 3: Multiply (green), and Step 4: Add (pink). To the right, a small logo says 'CREATING CONNECTIONS'. Below the steps, three multiplication problems are shown with color-coded work:

**Problem 1:** 
$$\begin{array}{r} 82 \\ \times 47 \\ \hline 574 \\ + 3280 \\ \hline 3854 \end{array}$$

**Problem 2:** 
$$\begin{array}{r} 351 \\ \times 49 \\ \hline 3159 \\ + 14040 \\ \hline 17199 \end{array}$$

**Problem 3:** 
$$\begin{array}{r} 706 \\ \times 65 \\ \hline 3530 \\ + 42360 \\ \hline 45890 \end{array}$$

### Try These

- a)  $23 \times 42$
- b)  $45 \times 16$
- c)  $125 \times 27$
- d) A pilot flies 356 km per week. If she works 48 weeks of the year, what distance does she fly in all.