

4.NBT.5 Multiplication 2x1 & 3x1 digit

I can multiply multi-digit numbers using various strategies:
calculate using equations



multi-digit number

A number greater than 9 or a number that has more than one digit.



regroup

The process of changing groups of ones into tens. (carry)



Example:
$$\begin{array}{r} +1 \\ 13 \\ \times 4 \\ \hline 2 \end{array}$$

$3 \times 4 = 12$
Write down the 2 and
carry or regroup the 1
above the tens.



STEP 1

Rewrite the expanded form next to the multiplication problem.

STEP 2

Multiply the each number inside of the () by the digit on the outside.

STEP 3

Add both products together.

$$\begin{aligned} 23 \times 6 &= (20 + 3) \times 6 \\ &= 20 \times 6 + 3 \times 6 \\ &= 120 + 18 \\ &= 138 \end{aligned}$$

PRACTICE

$$87 \times 3 = (\underline{\quad} + \underline{\quad}) \times 3 \quad 49 \times 8 = (\underline{\quad} + \underline{\quad}) \times \underline{\quad} \quad 193 \times 8 = (\underline{\quad} + \underline{\quad} + \underline{\quad}) \times \underline{\quad}$$