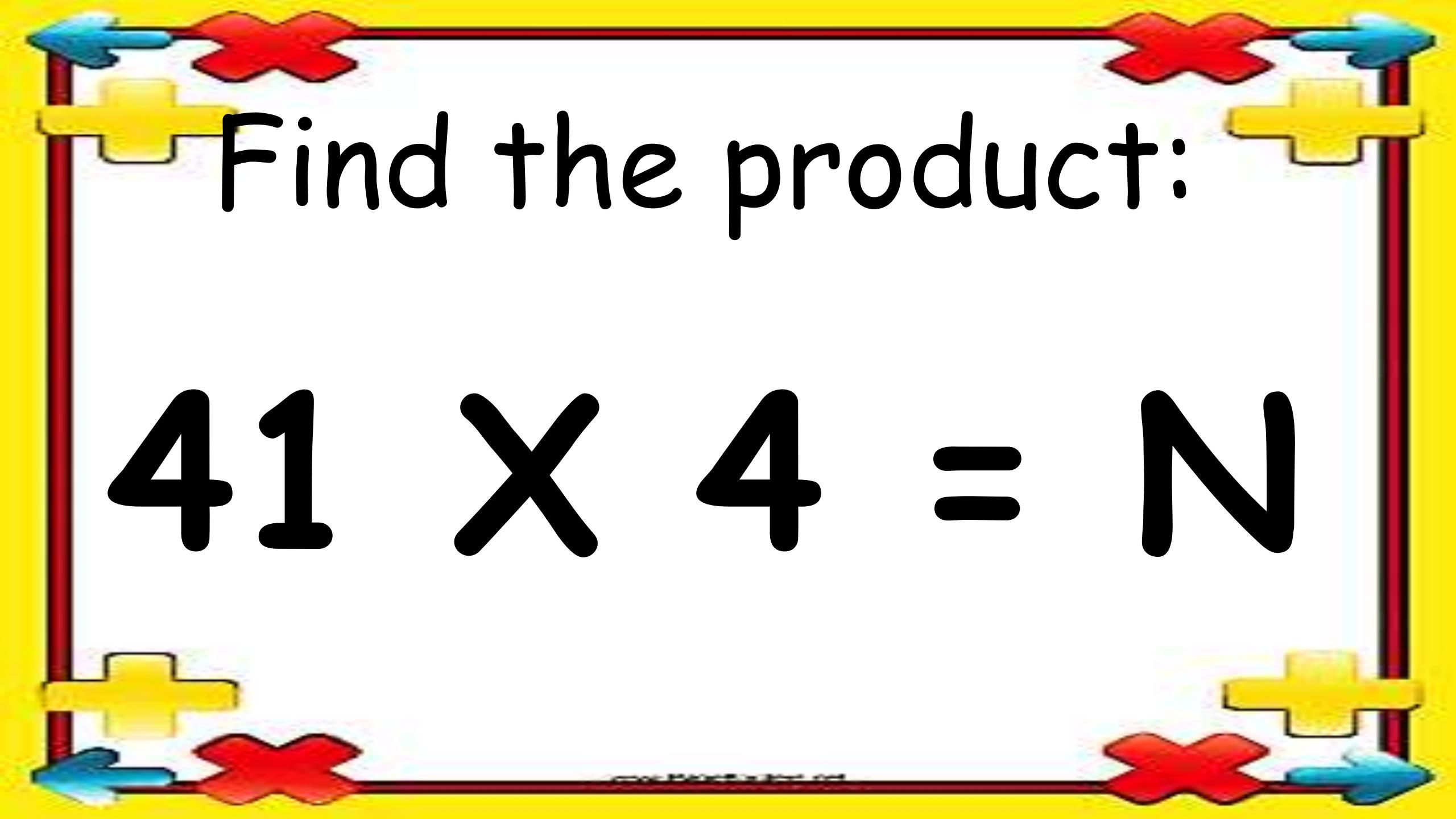


MULTIPLICATION WITH ONE-DIGIT MULTIPLIER

(WITHOUT AND WITH
REGROUPING)

MULTIPLICATION WITHOUT REGROUPING



Find the product:

$$41 \times 4 = N$$

Step 1: Write it in column.

$$\begin{array}{r} 41 \\ \times 4 \\ \hline \end{array}$$

Step 2:

Multiply the multiplier to the number in the ones place of multiplicand.

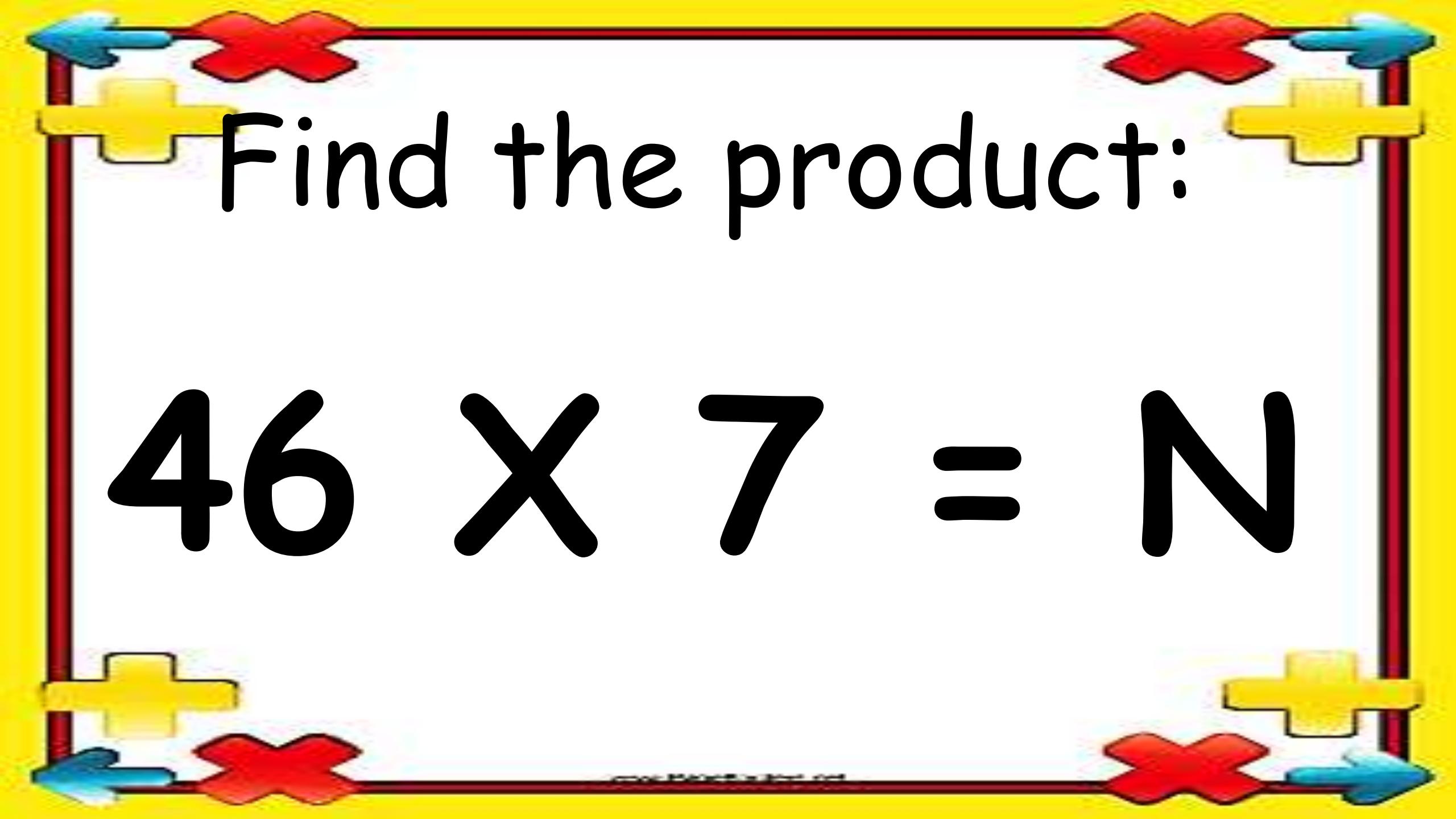
$$\begin{array}{r} 41 \\ \times 2 \\ \hline 2 \end{array}$$

Step 3:

Multiply the multiplier
to the number in the
tens place of
multiplicand.

$$\begin{array}{r} 41 \\ \times 2 \\ \hline 82 \end{array}$$

MULTIPLICATION WITH REGROUPING



Find the product:

$$46 \times 7 = N$$

Step 1: Write it in column.

$$\begin{array}{r} 46 \\ \times 7 \\ \hline \end{array}$$

Step 2:

Multiply the multiplier to the number in the ones place of multiplicand.

$$\begin{array}{r} 46 \\ \times 7 \\ \hline \end{array}$$

$$7 \times 6 = 42$$

Step 3:

Regroup 42, as 4 tens
and 2 ones. Write down
the ones. Carry the tens.

⁴

4 6

X 7

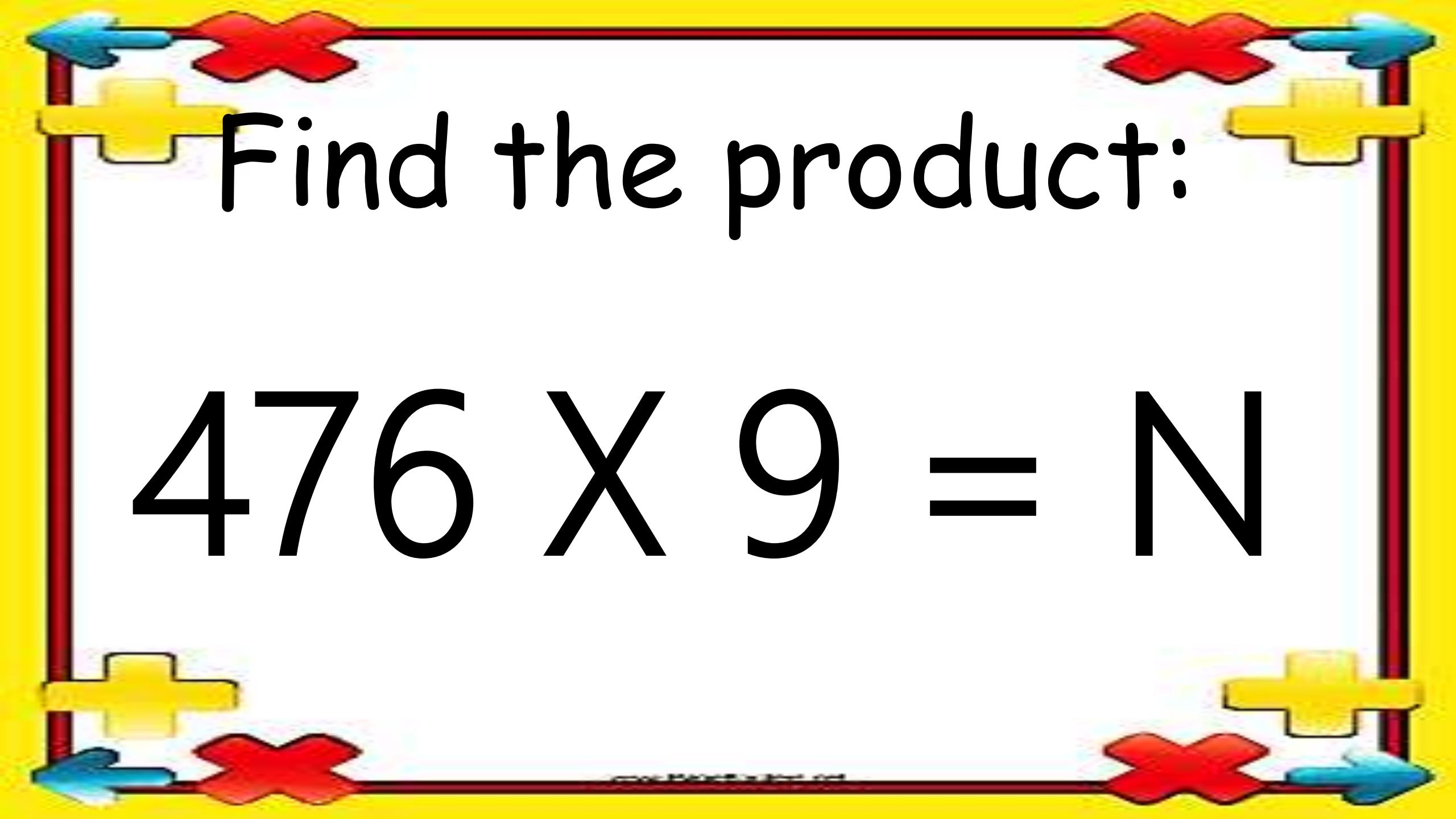
2

Step 4: Multiply the multiplier to the number in the tens place of multiplicand. Add in the four (4) ten you carried over.

$$\begin{aligned} 7 \times 4 &= 28 + 4 \\ &= 32 \end{aligned}$$

A multiplication diagram showing the calculation of 46×7 . The top row has '4' above '6' with a small red '4' above it. The bottom row has a large black 'X' followed by '7' with a small red '7' above it. A horizontal line separates the two rows. Below the line, the result '322' is written in red, with each digit aligned under its respective column.

$$\begin{array}{r} 46 \\ \times 7 \\ \hline 322 \end{array}$$



Find the product:

$$476 \times 9 = N$$

Step 1: Write it in column.

$$\begin{array}{r} 476 \\ \times 9 \\ \hline \end{array}$$

Step 2:

Multiply the multiplier to the number in the ones place of multiplicand.

$$\begin{array}{r} 476 \\ \times 9 \\ \hline \end{array}$$

$$9 \times 6 = 54$$

Step 3:

Regroup 54, as 5 tens
and 4 ones. Write down
the ones. Carry the tens.

$$\begin{array}{r} 5 \\ 476 \\ \times 9 \\ \hline 4 \end{array}$$

Step 4: Multiply the multiplier to the number in the tens place of multiplicand. Add in the five (5) ten you carried over.

$$\begin{aligned} 7 \times 9 &= 72 + 5 \\ &= 77 \end{aligned}$$

$$\begin{array}{r} & 5 \\ & 4 \ 7 \ 6 \\ \times & 9 \\ \hline & 4 \end{array}$$

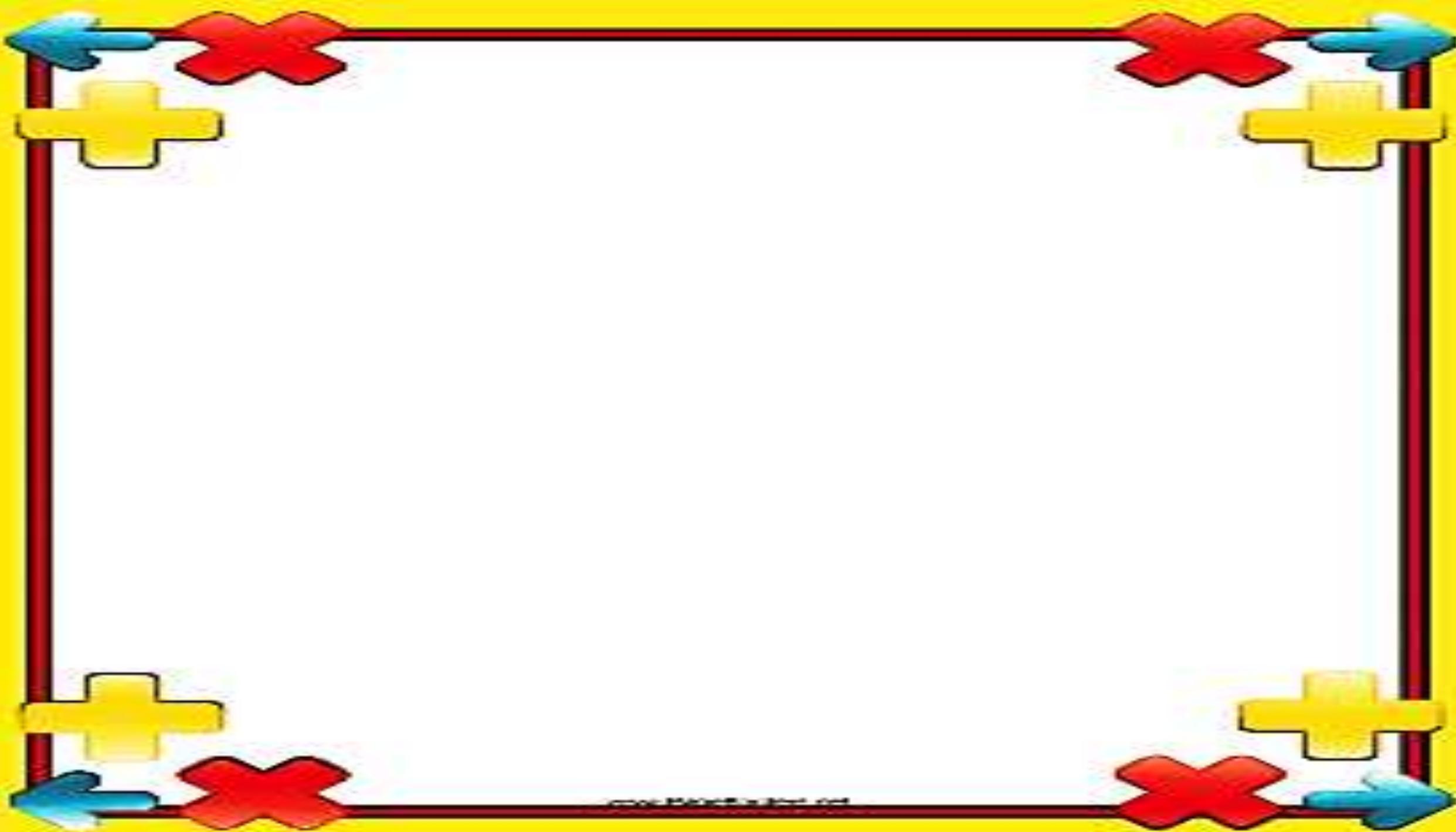
Step 5: Regroup 77, as 7 hundreds and 7 tens. Write down the ones. Carry the tens.

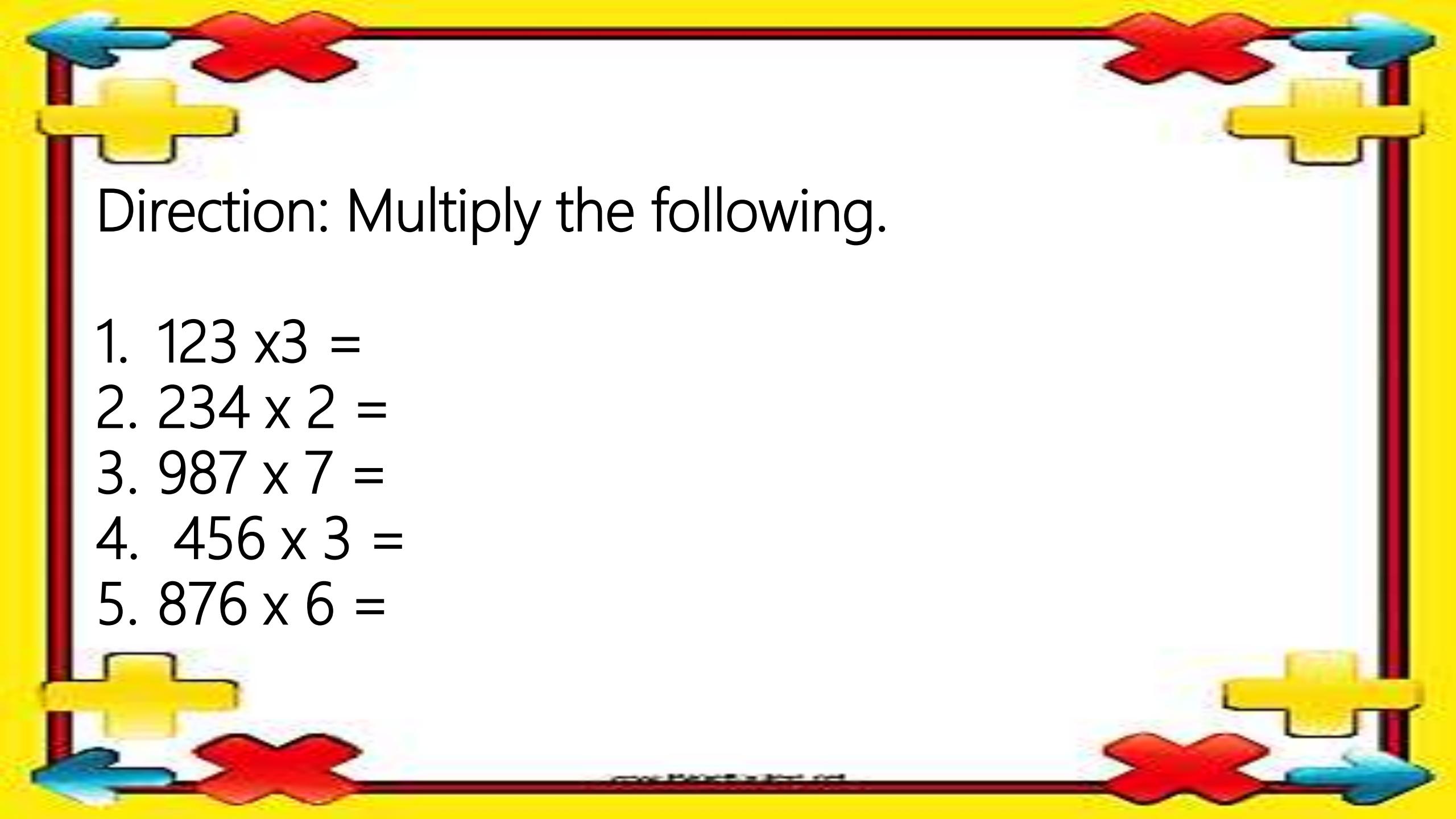
$$\begin{array}{r} 7 & 5 \\ 4 & 7 & 6 \\ \times & & 9 \\ \hline 7 & 4 \end{array}$$

Step 6: Multiply the multiplier to the number in the hundreds place of multiplicand. Add in the seven (7) hundreds you carried over.

$$\begin{array}{r} & 7 & 5 \\ & 4 & 7 & 6 \\ \times & & & 9 \\ \hline & 4 & 2 & 7 & 4 \end{array}$$

$$\begin{aligned} 9 \times 4 &= 36 + 7 \\ &= 42 \end{aligned}$$





Direction: Multiply the following.

$1. \ 123 \times 3 =$

$2. \ 234 \times 2 =$

$3. \ 987 \times 7 =$

$4. \ 456 \times 3 =$

$5. \ 876 \times 6 =$