

Name: _____

Mark: _____

4. Break Apart to Multiply

A. Visual Learning

How to break apart to multiply?

Find the product: 3×25 .

You can break:
 $25 = 20 + 5$



Step 1	Step 2	Step 3
Break apart $3 \times 25 = 3 \times (20 + 5)$	Find partial products $3 \times 20 = 60$ $3 \times 5 = 15$	Add partial products $60 + 15 = 75$



You can rewrite three steps as on the right.

25 ($25 = 20 + 5$)

$$\begin{array}{r}
 \times 3 \\
 \hline
 15 \\
 + 60 \\
 \hline
 75
 \end{array}$$

B. Vocabulary

break apart: _____

partial product: _____

C. Independent Practice

In 1 – 6, find each product.

1. 13 ($13 = 10 + 3$)

$$\begin{array}{r}
 \times 6 \\
 \hline
 18 \\
 + 60 \\
 \hline
 \square \square
 \end{array}$$

2. 34 ($24 = \underline{\quad} + \underline{\quad}$)

$$\begin{array}{r}
 \times 5 \\
 \hline
 20 \\
 + \square \square \square \\
 \hline
 \square \square \square
 \end{array}$$

3. 67 ($67 = \underline{\quad} + \underline{\quad}$)

$$\begin{array}{r}
 \times 2 \\
 \hline
 \square \square \\
 + \square \square \square \\
 \hline
 \square \square \square
 \end{array}$$

4.
$$\begin{array}{r} 36 \\ \times 2 \\ \hline \end{array}$$

5.
$$\begin{array}{r} 18 \\ \times 7 \\ \hline \end{array}$$

6.
$$\begin{array}{r} 55 \\ \times 3 \\ \hline \end{array}$$

7. Mr.Cruz weighs 8 cartons. Each carton weighs 17kg.

How many kilograms are there in all?

A. 25kg

B. 136kg

C. 856kg

D. 8,056kg

8. When Tony multiplies 6×27 , Tony writes the partial products below.

$$6 \times 7 = 42$$

$$6 \times 2 = 12$$

Is he correct? Explain.

9*. The product of a number and 25 is greater than 50 but less than 100.

What's the number? Explain.

