

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 Break apart	Step 2 Find partial products	Step 3 Add partial products
$3 \times 25 = 3 \times (20 + 5)$	$3 \times 20 = 60$ $3 \times 5 = 15$	$60 + 15 = 75$
 You can rewrite three steps as on the right. $\begin{array}{r} 25 \text{ (} 25 = 20 + 5 \text{)} \\ \times 3 \\ \hline 15 \\ + 60 \\ \hline 75 \end{array}$		

B. Vocabulary

break apart: _____ partial product: _____

C. Independent Practice

In 1 – 6, find each product.

1. $13 \text{ (} 13 = 10 + 3 \text{)}$

$$\begin{array}{r}
 \times 6 \\
 13 \\
 + 60 \\
 \hline
 \square\square
 \end{array}$$

2. $34 \text{ (} 24 = _ + _ \text{)}$

$$\begin{array}{r}
 \times 5 \\
 34 \\
 + \square\square\square \\
 \hline
 \square\square\square
 \end{array}$$

3. $67 \text{ (} 67 = _ + _ \text{)}$

$$\begin{array}{r}
 \times 2 \\
 67 \\
 + \square\square\square \\
 \hline
 \square\square\square
 \end{array}$$

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.

