

Using an Expanded Algorithm

How can you record multiplication?

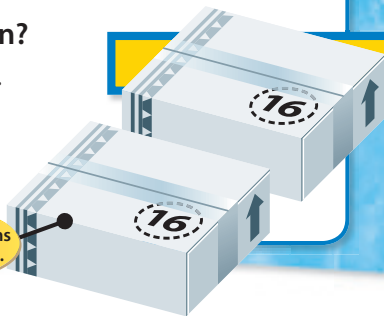
A store ordered 2 boxes of video games.
How many games did the store order?

Choose an Operation Multiply to join equal groups.

Hands-On
place-value blocks



Each box contains 16 video games.



What You Show

Build an array to show 2×16 .

$$\begin{array}{r} 2 \times 10 = 20 \quad 2 \times 6 = 12 \\ 20 + 12 = 32 \end{array}$$

What You Write

Here is one way to record multiplication.

$$\begin{array}{r} 16 \\ \times 2 \\ \hline 12 \\ + 20 \\ \hline 32 \end{array}$$

← Partial Products

The store ordered 32 games.

- What is the problem asking you to find?
- What will you multiply to solve the problem?

- Explain how the array shows 2×16 .

- Can you point out the partial products in the array?