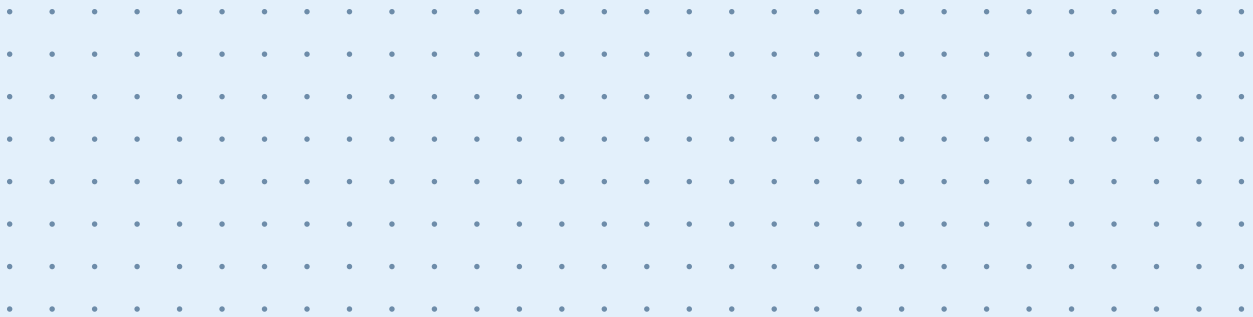


PARTITION 24×3

- 1 Split 24 into tens and units: **20** and **4**.
- 2 Tens part-product: **$20 \times 3 = 60$** .
- 3 Units part-product: **$4 \times 3 = 12$** .
- 4 Add the parts: **$60 + 12 = 72$** .

WARM-UP

Use the dot lattice to build arrays by ringing equal rows for each fact.



1. Ring 3 rows of 15 dots to show 15×3 and write the total it shows
2. Ring 3 rows of 24 dots to show 24×3 and write the total it shows
3. Ring 4 rows of 21 dots to show 21×4 and write the total it shows

PRACTICE

- 1 Each lunch box holds **13** grapes. Dad packs **2** lunch boxes. How many grapes in total?
- 2 A bakery tray has **12** buns. The shop orders **4** trays. How many buns are ordered?
- 3 Each shopping basket holds **17** carrots. Three baskets are filled. How many carrots altogether?

SPOT THE MISTAKE

Sean works out 23×3 by partitioning like this:

$$\begin{aligned} 20 \times 3 &= 60 \\ 3 \times 3 &= 9 \\ 60 + 3 &= 63 \end{aligned}$$

Sean made a mistake at the end. What is the correct answer?

REFLECT

Did splitting into tens and units make the multiply step feel easier? Why?