Possible Solutions
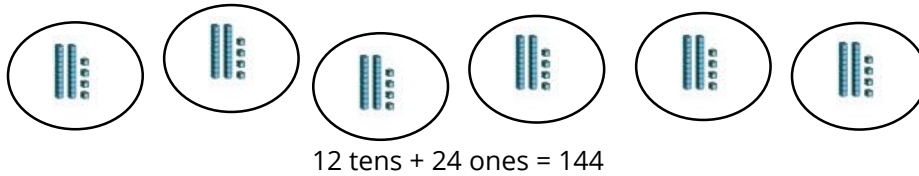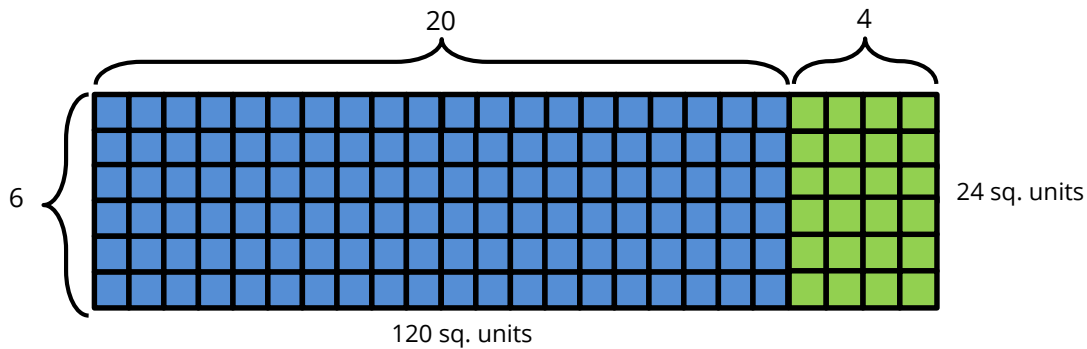
Use base ten models to show equal groups of 24.

12 tens + 24 ones = 144

Use an area model to show partial products.

20   4

6   24 sq. units

120 sq. units

6 x 20 is 120
6 x 4 is   24
144

Use the distributive property to break 24 into easier numbers to multiply.
6 x (20 + 4) = 6 x 20 + 6 x 4 = 120 + 24

Use a table to build groups of 24

Groups of 24	Total
1	24
2	48
3	72
6	144

Use the Associative Property of multiplication to break 6 into smaller factors.
(2 x 3) x 24 = 2 x (3 x 24)

Use the standard algorithm for multiplication.

$$\begin{array}{r} {\scriptstyle 2} \\ 24 \\ \times\, 6 \\ \hline 144 \end{array}$$

First, multiply 6 x 4 to get 24. Put the 4 in the ones place and carry 2 tens to the tens place. Then, multiply 6 x 2 tens to get 12 tens and add the 2 tens you carried to make 14 tens.