

Handout

2 - 4
Section 12

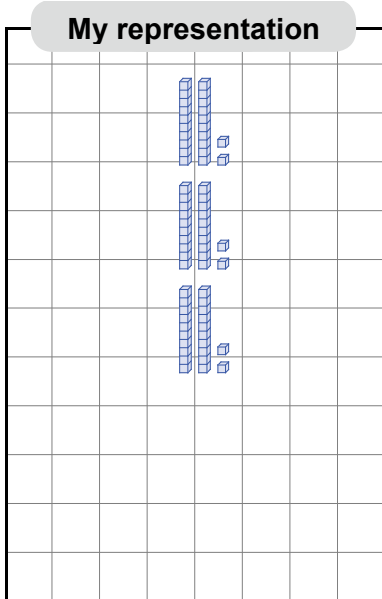
Reinforcement

**ANSWER
KEY**

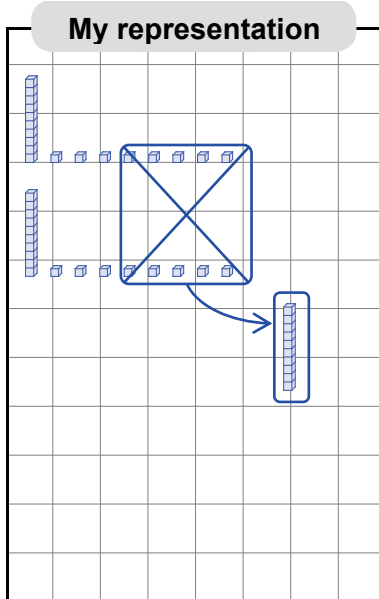
**Multiplication – Multiplying by
Decomposing a Number**

1. Find the products. Represent the multiplications to help you.

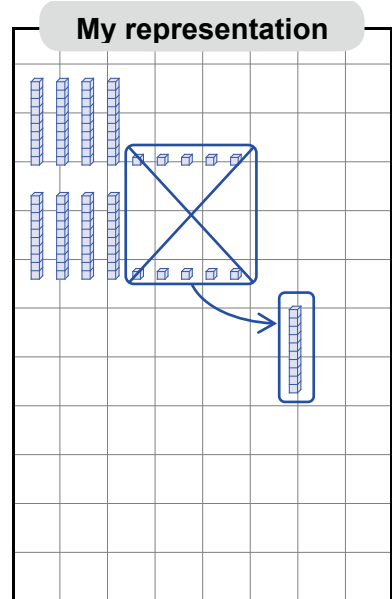
a) $22 \times 3 =$ **66**



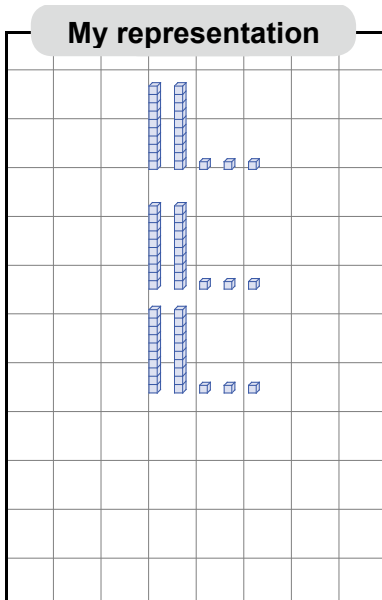
b) $18 \times 2 =$ **36**



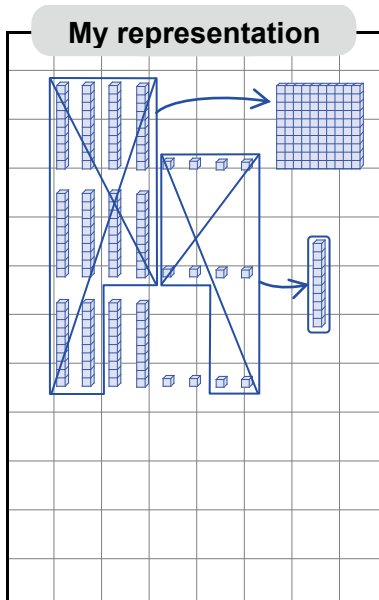
c) $45 \times 2 =$ **90**



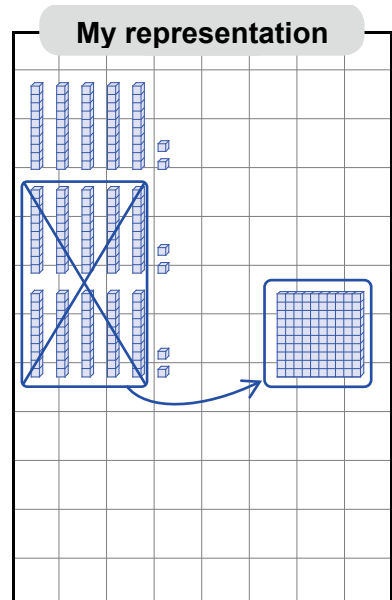
d) $23 \times 3 =$ **69**



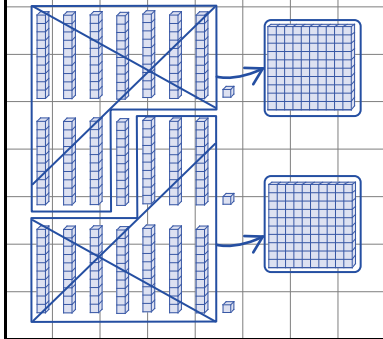
e) $44 \times 3 =$ **132**



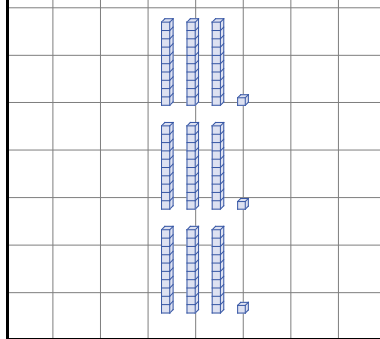
f) $52 \times 3 =$ **156**



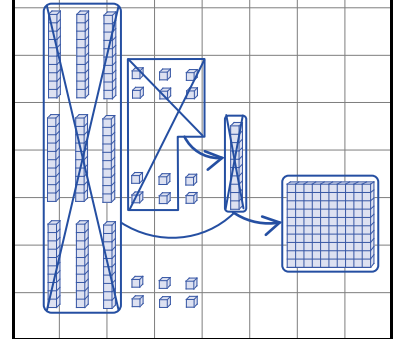
g) $71 \times 3 =$

213**My representation**

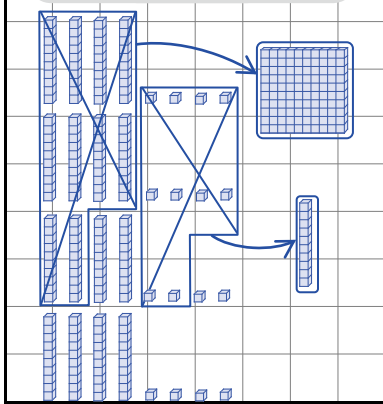
h) $31 \times 3 =$

93**My representation**

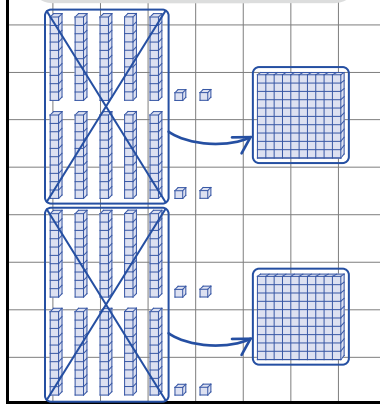
i) $36 \times 3 =$

108**My representation**

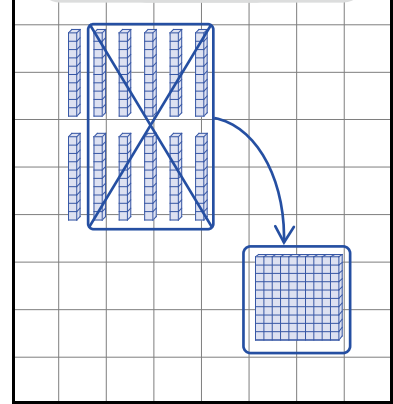
j) $44 \times 4 =$

176**My representation**

k) $52 \times 4 =$

208**My representation**

l) $60 \times 2 =$

120**My representation****2. Find the products by decomposing the factors.**

a) $42 \times 3 =$

126**My calculation**

$$\begin{aligned} 40 \times 3 &= 120 \\ 2 \times 3 &= 6 \\ 120 + 6 &= 126 \end{aligned}$$

b) $72 \times 4 =$

288**My calculation**

$$\begin{aligned} 70 \times 4 &= 280 \\ 2 \times 4 &= 8 \\ 280 + 8 &= 288 \end{aligned}$$

c) $19 \times 4 =$

76**My calculation**

$$\begin{aligned} 10 \times 4 &= 40 \\ 9 \times 4 &= 36 \\ 40 + 36 &= 76 \end{aligned}$$

d) $33 \times 3 =$

99**My calculation**

$$\begin{aligned} 30 \times 3 &= 90 \\ 3 \times 3 &= 9 \\ 90 + 9 &= 99 \end{aligned}$$

e) $58 \times 4 =$

232**My calculation**

$$\begin{aligned} 50 \times 4 &= 200 \\ 8 \times 4 &= 32 \\ 200 + 32 &= 232 \end{aligned}$$

f) $81 \times 7 =$

567**My calculation**

$$\begin{aligned} 80 \times 7 &= 560 \\ 1 \times 7 &= 7 \\ 560 + 7 &= 567 \end{aligned}$$