

Lesson 24 **NUMBER****Multiplying a multi-digit number by a single digit**

MODEL THIS ON THE BOARD

 38×6 (USING THE AREA MODEL)

	$\times 30$	$\times 8$
6	180	48

Total: $180 + 48 =$

- 1 Split 38 into **$30 + 8$** .
- 2 Multiply each part by 6: $30 \times 6 = 180$; $8 \times 6 = 48$.
- 3 Add the partial products: $180 + 48 =$ **228**.

ANSWER KEY

- a) $23 \times 4 = (20 \times 4) + (3 \times 4) = 80 + 12 =$ ****92****. Q1: 3475
- b) $47 \times 6 = (40 \times 6) + (7 \times 6) = 240 + 42 =$ ****282****. Q2: 1757
- c) $235 \times 7 = (200 \times 7) + (30 \times 7) + (5 \times 7) = 1400 + 210$ Q3: 23989
 $+ 35 =$ ****1,645****. Q4: 29330
- d) $138 \times 6 = (100 \times 6) + (30 \times 6) + (8 \times 6) = 600 + 180$
 $+ 48 =$ ****828****.

EXTENSION SHEET · STRETCH ANSWERS

- S1: 30474 S3: 2241
- S2: 7479