

Multiplying two two-digit numbers

MODEL THIS ON THE BOARD

23 × 14 (USING THE AREA MODEL)

	× 20	× 3
10	200	30
4	80	12

Total: 200 + 30 +

- Split each number: $23 = 20 + 3$, $14 = 10 + 4$.
- Multiply each combination: 20×10 , 20×4 , 3×10 , 3×4 .
- Add all four partial products: $200 + 80 + 30 + 12 = 322$.

ANSWER KEY

- a) $23 \times 17 = 200 + 140 + 30 + 21 = 391$. Q2: 1, 2, 19, 38
- b) $42 \times 26 = 800 + 240 + 40 + 12 = 1,092$. Q3: 30474
- c) $58 \times 35 = 1500 + 250 + 240 + 40 = 2,030$. Q4: 23989
- Q1: 233.1

EXTENSION SHEET · STRETCH ANSWERS

- S1: 29330 S4: 2241
- S2: 7479 S5: 3475
- S3: 1757