



Multi-Digit Multiplication

Blast Off with Multiplication!

Name: _____

Date: _____

Section 1: Two-Digit by One-Digit

Split the number into tens and ones. Multiply each part, then add.

Example $47 \times 6 = ?$ $40 \times 6 = 240$ and $7 \times 6 = 42$. $240 + 42 = 282$.

a) $23 \times 4 =$

d) $78 \times 6 =$

b) $52 \times 3 =$

e) $85 \times 8 =$

c) $64 \times 5 =$

Section 2: Three- and Four-Digit by One-Digit

Split the number by place value. Multiply each part, then add.

Example $3,284 \times 6 = ?$ $3,000 \times 6 = 18,000$ and $284 \times 6 = 1,704$.
 $18,000 + 1,704 = 19,704$.

a) $214 \times 3 =$

d) $1,243 \times 2 =$

b) $427 \times 5 =$

e) $6,418 \times 7 =$

c) $538 \times 6 =$





Multiplying Multi-Digit Numbers

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Section 3: Two-Digit by Two-Digit

Split the second number into tens and ones. Multiply, then add the two parts.

Example $47 \times 36 = ?$ $47 \times 30 = 1,410$ and $47 \times 6 = 282$. $1,410 + 282 = 1,692$.

a) $23 \times 14 =$

b) $35 \times 22 =$

c) $48 \times 31 =$

d) $56 \times 27 =$

e) $64 \times 45 =$



Section 4: Partial Products and Area Models

Fill in each partial product, then add to find the total.

Example 36×24 area model. Grid of four parts:
 $30 \times 20 = 600$, $30 \times 4 = 120$, $6 \times 20 = 120$, $6 \times 4 = 24$. $600 + 120 + 120 + 24 = 864$.

a) 52×3 : $50 \times 3 =$

and $2 \times 3 =$

Total =

b) 64×7 : $60 \times 7 =$

and $4 \times 7 =$

Total =

c) Area model for 23×15 :

10 5

20

3

Total =

d) Area model for 41×32 :

30 2

40

1

Total =



Multi-Digit Multiplication

Answer Key

Teacher Copy

1 Section 1

- a) 92 b) 156 c) 320 d) 468 e) 680

2 Section 2

- a) 642 b) 2,135 c) 3,228 d) 2,486 e) 44,926

3 Section 3

- a) 322 b) 770 c) 1,488 d) 1,512 e) 2,880

4 Section 4

- a) 150, 6, total 156
b) 420, 28, total 448
c) 200, 100, 30, 15, total 345
d) 1,200, 80, 30, 2, total 1,312