



Multiply Through Space

Multi-Digit Multiplication



Name: _____

Date: _____

Section 1: Two-Digit by Two-Digit

Multiply. Line up your place values.

Example

$$23 \times 14 = 322$$

$$23 \times 4 = 92, 23 \times 10 = 230, 92 + 230 = 322$$

1

$$\begin{array}{r} 32 \\ \times 21 \\ \hline \end{array}$$

2

$$\begin{array}{r} 45 \\ \times 12 \\ \hline \end{array}$$

3

$$\begin{array}{r} 24 \\ \times 32 \\ \hline \end{array}$$

4

$$\begin{array}{r} 53 \\ \times 23 \\ \hline \end{array}$$

5

$$\begin{array}{r} 62 \\ \times 41 \\ \hline \end{array}$$





Section 2: Three-Digit by Two-Digit



Multiply. Carry carefully.

Example

$$\begin{array}{r} 214 \\ \times 32 \\ \hline 428 \\ 6,420 \\ \hline 6,848 \end{array}$$

$$214 \times 32 = 6,848$$

$$214 \times 2 = 428$$

$$214 \times 30 = 6,420$$

$$428 + 6,420 = 6,848$$

1 $\begin{array}{r} 123 \\ \times 21 \\ \hline \end{array}$

2 $\begin{array}{r} 342 \\ \times 13 \\ \hline \end{array}$

3 $\begin{array}{r} 215 \\ \times 24 \\ \hline \end{array}$

4 $\begin{array}{r} 431 \\ \times 32 \\ \hline \end{array}$

5 $\begin{array}{r} 506 \\ \times 41 \\ \hline \end{array}$





Section 3: The Placeholder Zero

Write the zero on the second line, then add.

Example

$$\underline{36 \times 24}$$

$$36 \times 4 = 144$$

$$\underline{36 \times 20 = 720 \text{ (the zero holds the ones place)}}$$

$$864$$

1 $\underline{27 \times 13}$

$$27 \times 3 = 81$$

$$27 \times 10 =$$

Total =

2 $\underline{45 \times 22}$

$$45 \times 2 = 90$$

$$45 \times 20 =$$

Total =

3 $\underline{38 \times 31}$

$$38 \times 1 = 38$$

$$38 \times 30 =$$

Total =

1 $\underline{64 \times 25}$

$$64 \times 5 = 320$$

$$64 \times 20 =$$

Total =

5 $\underline{52 \times 43}$

$$52 \times 3 = 156$$

$$52 \times 40 =$$

Total =





Section 4: Space Word Problems



Read the story. Multiply to solve.

Example

A rocket uses 24 fuel tanks on each trip.
How many fuel tanks does it use on 12 trips?

$24 \times 12 = 288$ fuel tanks.

- 1** A space station has 15 rooms. Each room holds 12 astronauts. How many astronauts fit in all?

- 2** An alien shop sells 32 star stickers in each pack. How many stickers are in 14 packs?

- 3** A flying saucer travels 125 miles each day. How many miles does it travel in 12 days?

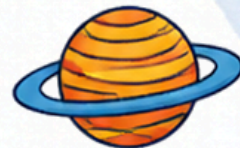
- 4** A telescope photo shows 236 stars. How many stars are in 24 photos?





Multiply Through Space

Answer Key



Teacher Copy

Section 1: Two-Digit by Two-Digit

1) 672

2) 540

3) 768

4) 1,219

5) 2,542

Section 2: Three-Digit by Two-Digit

1) 2,583

2) 4,446

3) 5,160

4) 13,792

5) 20,746

Section 3: The Placeholder Zero

1) 270,
351

2) 900,
990

3) 1,140,
1,178

4) 1,280,
1,600

5) 2,080,
2,236

Section 4: Space Word Problems

1) 180 astronauts

2) 448 stickers

3) 1,500 miles

4) 5,664 stars

