

Grade 5 · Multiplying Multi-Digit Whole Numbers · Worksheet

Common Core 5.NBT.B.5 · mathovore.fr

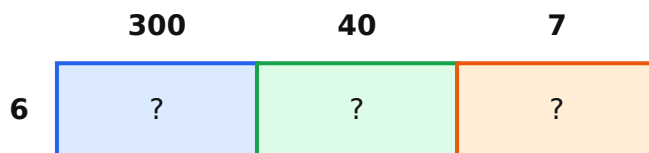
Name: _____ Date: ____/____/____ Score: _____

This worksheet gives 22 problems on multiplying multi-digit whole numbers, aligned to Common Core 5.NBT.B.5. Start with area models and three-digit by one-digit products, then work up to four-digit by two-digit and three-digit by three-digit products with zeros. The last six problems are word problems that use money, seats, crates, and trips.

Grade 5 Common Core: 5.NBT.B.5

Problem 1: Area model warm-up

Use the area model to find 347×6 . Write each missing partial product, then add.



Each cell holds one partial product.

Problem 2: Two digits by two digits

Find 52×34 .

Problem 3: A zero in the middle

Find 408×7 .

Problem 4: Three digits by two digits

Find 215×36 .

Problem 5: Factors that end in zero

Find 640×25 .

Problem 6: Estimate then multiply

Round each factor to the nearest ten to estimate 38×52 . Then find the exact product and tell whether it is reasonable.



Where 38 sits between 30 and 40.

Problem 7: Find the missing digit

The digit in the tens place is missing: $3?4 \times 6 = 2,064$. Find the missing digit.

Problem 8: Four digits by one digit

Find $1,246 \times 8$.

Problem 9: Standard algorithm

Use the standard algorithm to find 756×43 .

Problem 10: Zero in the thousands

Find $2,305 \times 27$.

Problem 11: Four digits by two digits

Find $4,872 \times 36$.

Problem 12: Find the mistake

Noah multiplied 63 by 48 and got 756. Describe his mistake and find the correct product.

$$\begin{array}{r} 63 \\ \times 48 \\ \hline 504 \\ 252 \\ \hline 756 \end{array}$$

Problem 13: Three digits by three digits

Find 214×125 .

Problem 14: Zeros in both factors

Find 807×309 .

Problem 15: Fill the area model

The area model is set up for 46×73 . Find the four partial products and their sum.

	40	6
70	?	?
3	?	?

Write the four partial products.

Problem 16: Which product is greater?

Compare 48×62 and 51×58 . Which product is greater, and by how much?

Problem 17: Bake sale cookies

Aisha packs 36 cookies in each box for the bake sale. She fills 24 boxes. How many cookies does she pack?

24 boxes				
36	36	36	...	36

24 boxes of 36 cookies each.

Problem 18: Auditorium seats

The school auditorium has 38 rows. Each row has 45 seats. How many seats are in the auditorium?

38 rows

45 seats	45 seats	45 seats	...	45 seats
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38 rows with 45 seats in each.

Problem 19: Little League fees

A Little League has 125 players. Each player pays an \$85 fee. How much money does the league collect?

Problem 20: Apples at the market

Priya brings 36 crates to the farmers market. Each crate holds 144 apples. On the drive, 275 apples are bruised and thrown away. How many apples are left to sell?

36 crates

144	144	144	...	144
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36 crates of 144 apples.

Problem 21: Supply order

Ethan's school orders 15 cartons of pencils with 144 pencils in each carton, and 28 cartons of erasers with 36 erasers in each carton. How many pencils and erasers is that in all?

Problem 22: Ferry passengers

A ferry makes 14 trips a day and carries 235 passengers on every trip. If the ferry runs for 25 days, how many passengers does it carry in all?

14 trips in one day

235	235	235	...	235
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One day of ferry trips.