

Grade 4 · Multi-Digit Multiplication · Worksheet

Common Core 4.NBT.B.5 · mathovore.fr

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

These 24 problems practice multi-digit multiplication (4.NBT.B.5): up to four digits by one digit and two digits by two digits. Use partial products, area models, and properties of operations. The last problems are word problems about crates of apples, stadium seats, and bake sales. Show each partial product.

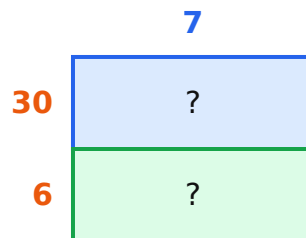
Grade 4 Common Core: 4.NBT.B.5

Problem 1: Multiply with no regrouping

Find $3 \times 1,212$.

Problem 2: Two-digit by one-digit

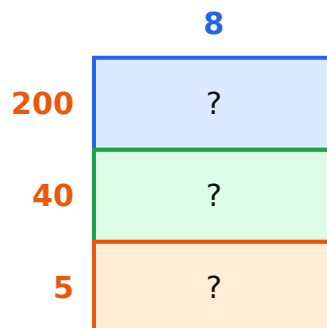
Find 7×36 .



Area model: 7 rows of 36, split into 30 and 6.

Problem 3: Three-digit by one-digit

Find 8×245 .



Area model: 8 rows and $245 = 200 + 40 + 5$.

Problem 4: Four-digit by one-digit

Find $6 \times 3,417$.

Problem 5: Multiply with a zero in the hundreds

Find $9 \times 6,508$.

Problem 6: Multiply with a zero in the tens

Find $5 \times 7,090$.

Problem 7: Use the properties

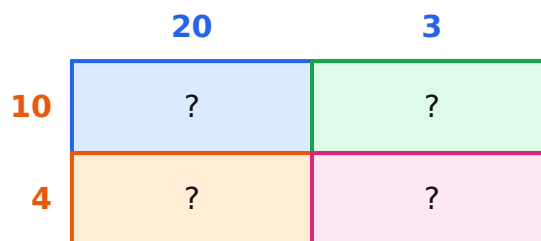
Find $4 \times 7 \times 25$ by multiplying 4 and 25 first.

Problem 8: Break apart a factor

Write 8×47 as a sum of two multiplications by splitting 47, then find the product.

Problem 9: Two-digit by two-digit, small

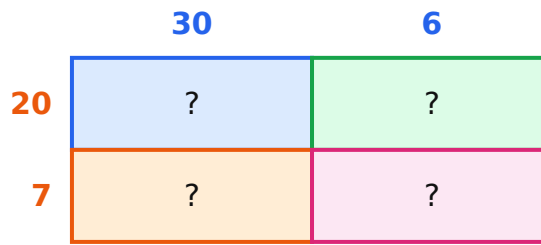
Find 23×14 .



Area model for 23×14 : sides $20 + 3$ and $10 + 4$.

Problem 10: Area model, 36 times 27

Find 36×27 .



Area model for 36×27 .

Problem 11: Partial products, 48 times 65

Find 48×65 .

Problem 12: Multiply 72 by 58

Find 72×58 .

Problem 13: Multiply 99 by 43

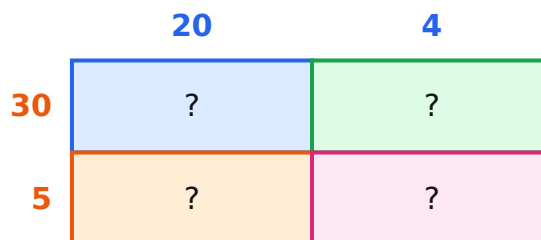
Find 99×43 .

Problem 14: Multiply by a multiple of ten

Find 40×53 .

Problem 15: Fill in the partial products

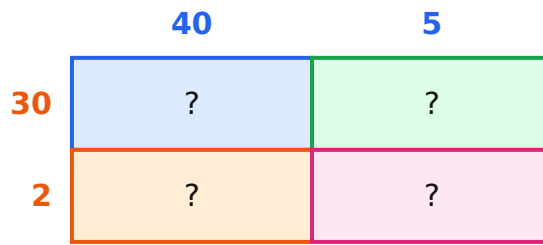
The area model shows 24×35 with the sides split. Find the four partial products and the total area.



Area model for 24×35 .

Problem 16: Write the equation from the model

Write the multiplication equation shown by the area model and find the product.



Area model with sides $30 + 2$ and $40 + 5$.

Problem 17: Estimate and then multiply

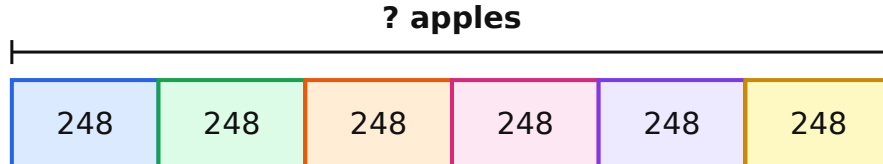
Estimate 38×52 by rounding each factor to the nearest ten. Then find the exact product.

Problem 18: Find the mistake in multiplying

Mei found 34×26 by adding $30 \times 20 = 600$ and $4 \times 6 = 24$ to get 624. Explain her mistake and find the correct product.

Problem 19: Crates of apples

A farm packs 248 apples in each crate. Find the number of apples in 6 crates.



Six equal parts of 248.

Problem 20: Stadium sections

A stadium has 9 sections. Each section has 1,325 seats. Find the total number of seats.

Problem 21: Rows of seats

The school auditorium has 28 rows with 36 seats in each row. Find the number of seats.



Problem 22: Road trip

A family drives 475 miles each day for 7 days on a road trip. Find the total number of miles.

Problem 23: League fees

A Little League has 24 teams with 15 players on each team. Each player pays \$8 for a team cap. Find (a) the number of players and (b) the total amount collected.

Problem 24: Bake sale boxes

Aisha sold 48 boxes of cookies for \$12 each. Noah sold 35 boxes of brownies for \$15 each. Find who raised more money and how much more.