RUSLI PREP
TEST PREP & TUTORING

FREE PRACTICE PACKET · GRADE 4

Multi-Digit Multiplication

Multiplying by tens, up to 4-digit by 1-digit and 2-digit by 2-digit

Inside

Part A · Multiplying by tens	page 2
Part B · Multi-digit multiplication	page 3
Part C · Word problems	page 4
Answer key	page 5

Tips for parents

Encourage your child to estimate first (round, then multiply) so they can tell if an answer is reasonable. Any method that works is fine: area models, partial products or the standard method. Neat, lined-up digits prevent most mistakes.

Made by Tim Rusli, Math & Physics Tutor in Union, NJ · Aligned to NJ Student Learning Standards 4.NBT.B.5 and 4.OA.A.3

Name _____ Date _____

Part A · Multiplying by tens

Multiply the non-zero digits, then add the zeros back on.

Example 6 × 300 → 6 × 3 = 18 → add two zeros → 1,800

Multiply.

1. 7 × 10 =

2. 7 × 100 =

3. 45 × 10 =

4. 6 × 300 =

5. 40 × 50 =

6. 8 × 2,000 =

7. 23 × 10 =

8. 9 × 600 =

Problem 5: careful! 4 × 5 = 20 already ends in a zero.

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Name _____ Date _____

Part B · Multi-digit multiplication

Show your work. Estimate first so you know about how big the answer should be.

Example 46 × 23 → (46 × 20) + (46 × 3) = 920 + 138 = 1,058

1. 34 × 6 =

2. 52 × 7 =

3. 128 × 4 =

4. 2,345 × 3 =

5. 46 × 23 =

6. 38 × 51 =

7. 72 × 15 =

8. 64 × 37 =

9. 1,206 × 5 =

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Name _____ Date _____

Part C · Word problems

Underline the numbers and the question. Then decide which numbers to multiply.

1. A school orders 24 boxes of pencils. Each box has 36 pencils. How many pencils is that?

   Answer: _____

2. A theater has 18 rows with 25 seats in each row. How many seats are there?

   Answer: _____

3. A bakery makes 1,250 cookies each day. How many cookies does it make in 6 days?

   Answer: _____

4. Maria saves $15 every week. How much does she save in 52 weeks?

   Answer: _____

5. Adult tickets cost $12 and child tickets cost $8. A family buys 4 adult tickets and 3 child tickets. What is the total cost?

   Answer: _____

6. Sam says 30 × 40 = 120. Is he right? Explain how you know.

Challenge Fill in the blanks: 23 × 47 = (20 × 47) + (3 × 47) = _____ + _____ = _____

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Answer key

Answers are shown in simplest form.

Part A

A1	7 × 10 = **70**
A2	7 × 100 = **700**
A3	45 × 10 = **450**
A4	6 × 300 = **1,800**
A5	40 × 50 = **2,000**
A6	8 × 2,000 = **16,000**
A7	23 × 10 = **230**
A8	9 × 600 = **5,400**

Part B

B1	34 × 6 = **204**
B2	52 × 7 = **364**
B3	128 × 4 = **512**
B4	2,345 × 3 = **7,035**
B5	46 × 23 = **1,058**
B6	38 × 51 = **1,938**
B7	72 × 15 = **1,080**
B8	64 × 37 = **2,368**
B9	1,206 × 5 = **6,030**

Part C

C1	**864** pencils
C2	**450** seats
C3	**7,500** cookies
C4	**$780**
C5	4 × 12 = 48, 3 × 8 = 24, total **$72**
C6	No. 3 × 4 = 12, and there are two zeros, so 30 × 40 = **1,200**.
★	(20 × 47) + (3 × 47) = 940 + 141 = **1,081**

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NEED A LITTLE MORE HELP?

One-on-one tutoring with Tim Rusli

I'm a Math and Physics tutor in Union, NJ with a Bachelor's in Applied Mathematics from Rutgers. I break hard problems into small, clear steps so students build real confidence, from elementary math to SAT Math, Calculus and Physics.

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Call or text 973-908-8595

tim@rusliprep.com