ALBERT

Name _____ Date _____

Multi-Digit Multiplication Worksheet

Grade 4 · Common Core 4.NBT.B.5

> Multiply a whole number of up to four digits by a one-digit whole number, and multiply two two-digit numbers, using strategies based on place value and the properties of operations. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.

Practice

Builds the skill step by step.

1. $4 \times 23 = ?$

2. $6 \times 315 = ?$

3. Which shows 7×46 broken into place-value parts?

   A. $7 \times 4 + 7 \times 6$

   B. $7 + 40 + 6$

   C. $7 \times 40 + 7 \times 6$

   D. $7 \times 40 \times 6$

4. $3 \times 1{,}204 = ?$

5. $12 \times 14 = ?$

6. This area model shows 23 × 14. Each box is a partial product. What is the missing partial product, and what is 23 × 14? Give the missing partial product first.

×	**20**	**3**
10	200	?
4	80	12

7. 5 × 2,468 = ?

8. A box holds 24 crayons. How many crayons are in 8 boxes?

9. Which equation shows 4 × 352 using place value?

   A. 4 × 352 = 4 × 3 + 4 × 5 + 4 × 2

   B. 4 × 352 = 4 × 300 + 4 × 50 + 4 × 2

   C. 4 × 352 = 300 + 50 + 2 × 4

   D. 4 × 352 = 300 + 50 + 2

10. 21 × 30 = ?

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On Level

Grade-level practice.

1. 7 × 3,846 = ?

2. 36 × 47 = ?

3. This area model shows 58 × 23. What is the missing partial product, and what is 58 × 23? Give the missing partial product first.

×	50	8
20	1,000	160
3	150	?

4. A theater has 28 rows with 35 seats in each row. How many seats does it have?

5. Which expression is equal to 9 × 607?

   A. 9 × 60 + 9 × 7

   B. 9 × 6 + 9 × 7

   C. 900 + 7

   D. 9 × 600 + 9 × 7

6. 6 × 5,009 = ?

7. A school buys 6 laptops for $1,285 each. What is the total cost?

8. 64 × 25 = ?

9. Sam wrote 23 × 15 = 23 × 10 + 3 × 5 = 245. What is the correct product, and what did Sam do wrong?

   A. 330. He should have added 15 to 23 × 10 instead.

   B. 2,315. He should have written 23 next to 15.

   C. 345. He multiplied only the 3 by 5; 23 × 5 = 115, so 230 + 115 = 345.

   D. 245. Sam is correct.

10. A truck makes 4 trips each day. Each trip is 128 miles. How many miles does the truck drive in 7 days?

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Challenge

Multi-step and word problems that stretch it.

1. 99 × 99 = ?

2. 8 × 7,625 = ?

3. A farmer plants 46 rows of 38 corn plants. Then 150 plants do not grow. How many plants grow?

4. This area model shows a two-digit number times a two-digit number. The top row shows the place-value parts of the first factor, and the left column shows the parts of the second factor. What are the two factors and their product? Give the first factor, then the second factor, then the product.

×	40	?
?	1,200	210
5	200	35

5. Which product is greatest?

   A. 3 × 3,125

   B. 2 × 4,699

   C. 96 × 98

   D. 5 × 1,880

6. Adult tickets cost $24 and child tickets cost $15. A group buys 18 adult tickets and 26 child tickets. What is the total cost?

7. Find the missing digit: 6 × 4,_15 = 26,490.

8. Use 25 × 4 = 100 to find 25 × 44.

9. Ella says 32 × 41 = 1,312. Ben says 32 × 41 = 128 + 32 = 160. Who is right?

   A. Ella. Ben found 32 × 4 instead of 32 × 40; the parts should be 1,280 + 32.

   B. Ben. Ella's answer is too big.

   C. Both are right.

   D. Neither. The answer is 1,240.

10. The area model for a two-digit number times a two-digit number has four partial products: 600, 80, 210 and 28. What is the total product?