

Name: _____ Period: _____ Date: _____

Multiplying Multi-Digit Whole Numbers

Assignment

Math 5

Part 1: Find the product of the following using area models.

1. 45×36

2. 374×89

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Assignment

Math 5

Part 2: Find the product of the following using partial products.

1. 442×65

2. $3\,345 \times 67$

3. $2\,619 \times 424$

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Assignment

Math 5

Part 3: Find the product using the standard algorithm.

1. 73×95

2. 93×26

3. 567×45

4. 718×24

5. 322×142

6. 615×831

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Math 5

$$7. \quad 2322 \times 51$$

$$8. \quad 5217 \times 42$$

$$9. \quad 3216 \times 131$$

$$10. \quad 4252 \times 227$$

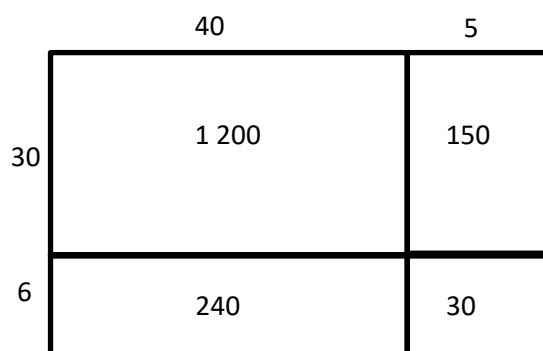
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Answers:

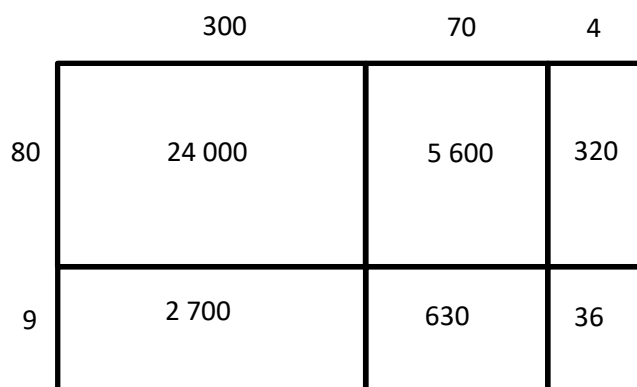
Part 1: Find the product of the following using area models.

1. 45×36



$$1\,200 + 240 + 150 + 30 = 1\,620$$

2. 374×89



$$24\,000 + 5\,600 + 320 + 2\,700 + 630 + 36 = 33\,286$$

Multiplying Multi-Digit Whole Numbers

Assignment

Math 5

Part 2: Find the product of the following using partial products.

1. 442×65

$$(400 + 40 + 2) \times (60 + 5)$$

$$400 \times 60 = 24\,000$$

$$400 \times 5 = 2\,000$$

$$40 \times 60 = 2\,400$$

$$40 \times 5 = 200$$

$$2 \times 60 = 120$$

$$2 \times 5 = 10$$

$$24\,000 + 2\,000 + 2\,400 + 200 + 120 + 10 = 28\,730$$

2. $3\,345 \times 67$

$$(3\,000 + 300 + 40 + 5) \times (60 + 7)$$

$$3\,000 \times 60 = 180\,000$$

$$3\,000 \times 7 = 21\,000$$

$$300 \times 60 = 18\,000$$

$$300 \times 7 = 2\,100$$

$$40 \times 60 = 2\,400$$

$$40 \times 7 = 280$$

$$5 \times 60 = 300$$

$$5 \times 7 = 35$$

$$180\,000 + 21\,000 + 18\,000 + 2\,100 + 2\,400 + 280 + 300 + 35 = 224\,115$$

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$$3. 2\,619 \times 424$$

$$(2\,000 + 600 + 10 + 9) \times (400 + 20 + 4)$$

$$2\,000 \times 400 = 800\,000$$

$$2\,000 \times 20 = 40\,000$$

$$2\,000 \times 4 = 8\,000$$

$$600 \times 400 = 240\,000$$

$$600 \times 20 = 12\,000$$

$$600 \times 4 = 2\,400$$

$$10 \times 400 = 4\,000$$

$$10 \times 20 = 200$$

$$10 \times 4 = 40$$

$$9 \times 400 = 3\,600$$

$$9 \times 20 = 180$$

$$9 \times 4 = 36$$

$$800\,000 + 40\,000 + 8\,000 + 240\,000 + 12\,000 + 2\,400 + 4\,000 +$$

$$200 + 40 + 3\,600 + 180 + 36 = 1\,110\,456$$

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Math 5

Part 3: Find the product using the standard algorithm.

1. 73×95

Solution: 73 895

2. 93×26

Solution: 2 418

3. 567×45

Solution: 25 515

4. 718×24

Solution: 7 232

5. 322×142

Solution: 45 724

6. 615×831

Solution: 511 065

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7. $2\,322 \times 51$

Solution: 118 422

8. $5\,217 \times 42$

Solution: 219 114

9. $3\,216 \times 131$

Solution: 421 296

10. $4\,252 \times 227$

Solution: 965 204

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