Name: _____ Period: _____ Date: _____

Multiplying Multi-Digit Whole Numbers

Assignment

Math 5

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

1. 45 x 36

2. 374 x 89

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Assignment

Math 5

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

1. 442 x 65

2. 3 345 x 67

3. 2 619 x 424

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Assignment

Math 5

Part 3: Find the product using the standard algorithm.

1. 73 x 95	2. 93 x 26
3. 567 x 45	4. 718 x 24
5. 322 x 142	6. 615 x 831

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Multiplying Multi-Digit Whole Numbers

Assignment

Math 5

7. 2 322 x 51	8. 5 217 x 42
9. 3 216 x 131	10. 4 252 x 227

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Assignment
Math 5

Answers:

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

1. 45 x 36

	40	5
30	1 200	150
6	240	30

1 200 + 240 + 150 + 30 = 1 620

2. 374 x 89

	300	70	4
80	24 000	5 600	320
9	2 700	630	36

24 0000 + 5 600 + 320 + 2 700 + 630 + 36 = 33 286

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

1. 442 x 65

(400 + 40 + 2) x (60 + 5)
400 x 60 = 24 000
400 x 5 = 2 000
40 x 60 = 2 400
40 x 5 = 200
2 x 60 = 120
2 x 5 = 10

24 0000 + 2 000 + 2 400 + 200 + 120 + 10 = 28 730

2. 3 345 x 67

(3 000 + 300 + 40 + 5) x (60 + 7)
3 000 x 60 = 180 000
3 000 x 7 = 21 000
300 x 60 = 18 000
300 x 7 = 2 100
40 x 60 = 2 400
40 x 7 = 280
5 x 60 = 300
5 x 7 = 35

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

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3. 2 619 x 424

(2 000 + 600 + 10 + 9) x (400 + 20 + 4)

2 000 x 400 = 800 000

2 000 x 20 = 40 000

2 000 x 4 = 8 000

600 x 400 = 240 000

600 x 20 = 12 000

600 x 4 = 2 400

10 x 400 = 4 000

10 x 20 = 200

10 x 4 = 40

9 x 400 = 3 600

9 x 20 = 180

9 x 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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Assignment
Math 5

Part 3: Find the product using the standard algorithm.

1. 73 x 95 Solution: 73 895	2. 93 x 26 Solution: 2 418
3. 567 x 45 Solution: 25 515	4. 718 x 24 Solution: 7 232
5. 322 x 142 Solution: 45 724	6. 615 x 831 Solution: 511 065

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7. 2 322 x 51 Solution: 118 422	8. 5 217 x 42 Solution: 219 114
9. 3 216 x 131 Solution: 421 296	10. 4 252 x 227 Solution: 965 204

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Math 5