Grid Method Multiplication

Name: _____ Date: _____ Class: _____

Part A - Warm Up Grids

Partition each number, fill in each box, then add the boxes together.

1. 24 × 3 =

	20	4
3		

2. 35 × 4 =

	30	5
4		

3. 46 × 5 =

	40	6
5		

4. 52 × 6 =

	50	2
6		

5. 63 × 4 =

	60	3
4		

6. 47 × 3 =

	40	7
3		

Remember: the tens part keeps its zero. In question 1, the 2 in 24 means 20.

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Part B - Bigger Grids

Now both numbers are partitioned. Each grid needs four boxes filled in.

1. 25 × 13 =

	20	5
10		
3		

2. 34 × 12 =

	30	4
10		
2		

3. 42 × 15 =

	40	2
10		
5		

4. 36 × 21 =

	30	6
20		
1		

Part C - Word Problem

A hall has 18 rows of chairs with 24 chairs in each row.
How many chairs are there in total? Use a grid to work it out.

	10	8
20		
4		

Answer: _____ chairs

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Answer Key - Grid Method

Part A - Warm Up Grids

1. 24 × 3: boxes are 60 + 12. Total = 72
2. 35 × 4: boxes are 120 + 20. Total = 140
3. 46 × 5: boxes are 200 + 30. Total = 230
4. 52 × 6: boxes are 300 + 12. Total = 312
5. 63 × 4: boxes are 240 + 12. Total = 252
6. 47 × 3: boxes are 120 + 21. Total = 141

Part B - Bigger Grids

1. 25 × 13: boxes are 200 + 50 + 60 + 15. Total = 325
2. 34 × 12: boxes are 300 + 40 + 60 + 8. Total = 408
3. 42 × 15: boxes are 400 + 20 + 200 + 10. Total = 630
4. 36 × 21: boxes are 600 + 120 + 30 + 6. Total = 756

Part C - Word Problem

18 × 24: boxes are 200 + 160 + 40 + 32. Total = 432 chairs.

Checking tip: count the boxes. A 2-digit by 1-digit grid has 2 boxes.
A 2-digit by 2-digit grid has 4 boxes. A missing box means a missing part.

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