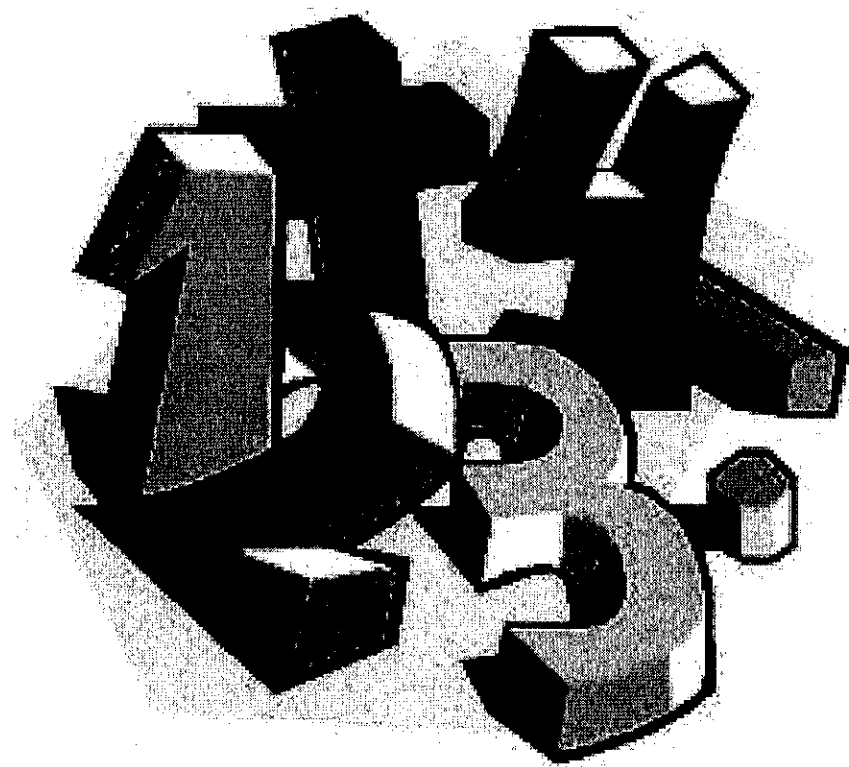


Math Games

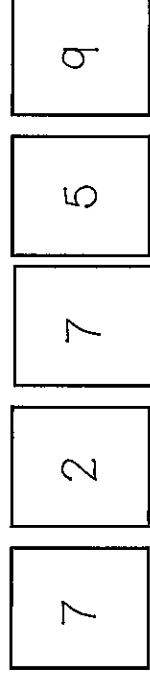
Grade 4



Greatest Product (4x1)

You will need: a partner, 2 sets of number cards 0-9, white boards & markers (or journals), a calculator

1. Flip over 5 number cards.
2. Each player uses the numbers to write a four-digit by one-digit multiplication equation. The goal is to have the greatest product. Solve the equation.
3. Check your partner's product using a calculator.
4. The player with the largest product gets 1 point.
5. The 1st player to score 10 points wins!



Player A :

Player B:

$$7752 \times 9 = 69,768$$

$$9,775 \times 2 = 19,550$$

Winner! ↑

0

1

2

3

4

5

6

7

8

9

0

1

2

3

4

5

6

7

8

9

Reasonable Sums

You will need: 2 sets of digit cards 0-9, a dry erase board and marker and pencil or a journal and pencil

1. Pick eight cards.

1	9	7	1	8	4	2	3
---	---	---	---	---	---	---	---

2. Create two 4-digit numbers.

1	3	2	4
7	9	1	8

3. Round each number to the nearest 100. Mentally add to find a reasonable sum.

1,324 rounds to 1,300
7,918 rounds to 7,900

$1,300 + 7,900 = 9,200$,
so 1,324 + 7,918 is about 9,200.

4. Find the exact sum of the two 2-digit numbers you created. Compare to your reasonable estimate.

$1,324 + 7,918 = 9,242$ 9,242 is about 9,200

Reasonable Sums

You will need: 2 sets of digit cards 0-9, a dry erase board and marker or a journal and pencil

1. Pick eight cards.

1	9	7	1	8	4	2	3
---	---	---	---	---	---	---	---

2. Create two 4-digit numbers.

1	3	2	4
7	9	1	8

3. Round each number to the nearest 1,000. Mentally add to find a reasonable sum.

1,324 rounds to 1,000
7,918 rounds to 8,000

1,000 + 8,000 = 9,000,
so 1,324 + 7,918 is about 9,000.

4. Find the exact sum of the two 2-digit numbers you created. Compare to your reasonable estimate.

1,324 + 7,918 = 9,242 9,242 is about 9,000

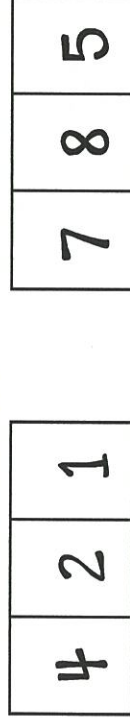
Reasonable Sums

You will need: numeral cards 0-9, a dry erase board and marker or a journal and pencil

1. Pick six cards.



2. Create two 3-digit numbers.



3. Round each number to the nearest 100. Mentally add to find a reasonable estimate of the sum.

421 rounds to 400
785 rounds to 800

$400 + 800 = 1200$ so $421 + 785$ is about 1200.

4. Find the exact sum of the two 3-digit numbers you created. Compare to your reasonable estimate.

$421 + 785 = 1206$

1206 is about 1200

numeral cards 0-9

0	1	2	3	4
5	6	7	8	9
0	1	2	3	4
5	6	7	8	9

XO Break Apart Addition Squares

You will need: game board, counters (or some way to mark squares), journal and a pencil

1. Find a partner. Decide who will be "X" and who will be "O."
2. On your turn, choose a square to claim.
3. Both players should "break apart" the addends and find the sum of the math expression in that square in their journal.
 - If you get the answer correct, you get to mark the square with your symbol.
 - If your answer is incorrect and your partner has solved it correctly, they get the square.
4. The first player to get 4 squares in a row (horizontally, vertically or diagonally) is the winner!

$$\begin{array}{r} 420 \\ + 192 \\ \hline 400 \quad 20 \quad 100 \quad 90 \quad 2 \end{array}$$

$$400 + 100 = 500$$

$$20 + 90 = 110$$

$$500 + 110 = 610$$

$$610 + 2 = 612$$

Break Apart Addition Squares

xo

$420 + 192$

$717 + 108$

$384 + 395$

$193 + 124$

$568 + 413$

$192 + 436$

$281 + 375$

$491 + 337$

$656 + 128$

$162 + 137$

$555 + 389$

$625 + 278$

$348 + 309$

$489 + 311$

$464 + 327$

$125 + 835$

Break Apart Addition Squares

xo

$$456 + 23$$

$$218 + 45$$

$$335 + 51$$

$$761 + 28$$

$$812 + 74$$

$$192 + 40$$

$$376 + 29$$

$$644 + 12$$

$$847 + 41$$

$$231 + 59$$

$$555 + 33$$

$$620 + 64$$

$$549 + 30$$

$$781 + 17$$

$$274 + 27$$

$$801 + 78$$

Break Apart Addition Squares

$450 + 327$	$234 + 152$	$681 + 116$	$428 + 241$
$567 + 231$	$624 + 363$	$495 + 202$	$316 + 503$
$171 + 112$	$435 + 312$	$107 + 402$	$713 + 185$
$381 + 313$	$239 + 520$	$610 + 137$	$337 + 121$

Name _____

What's the Equation? Recording Sheet

Array Card Number	Multiplication Equation

Name _____

What's the Equation? Recording Sheet

Array Card Number	Multiplication Equation

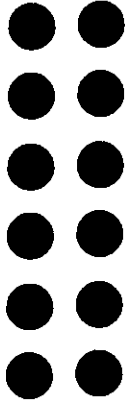
Name _____

3.OA.1

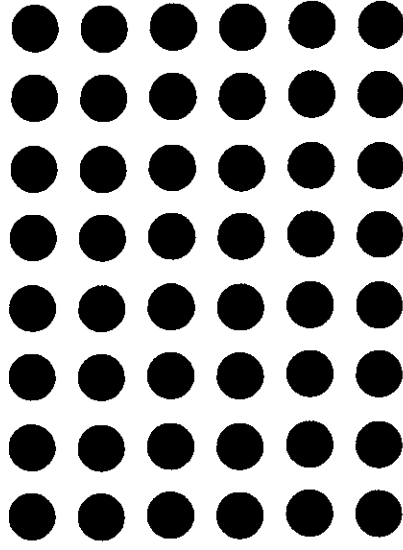
What's the Equation? Recording Sheet

Array Card Number	Multiplication Equation	Array Card Number	Multiplication Equation

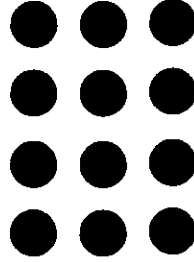
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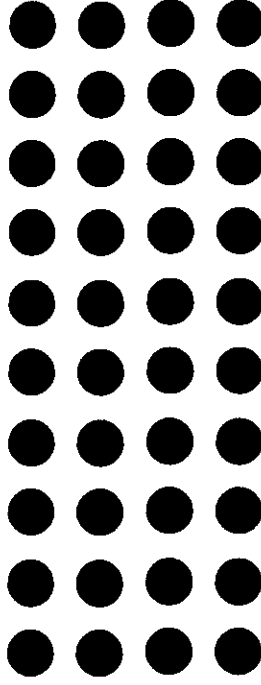
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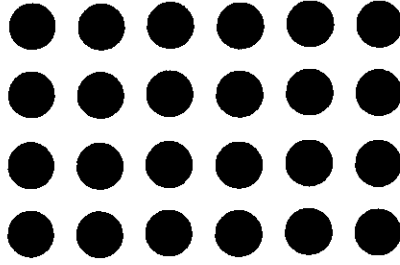
Array Card 3



Array Card 4



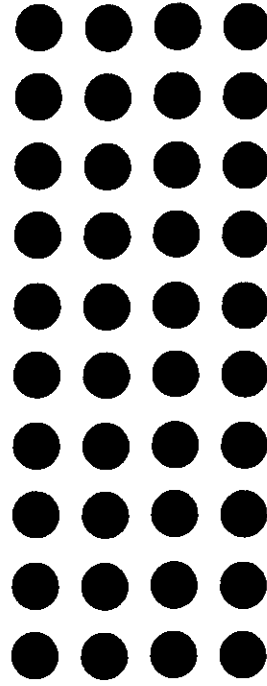
Array Card 5



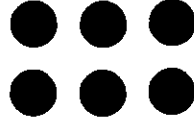
Array Card 6



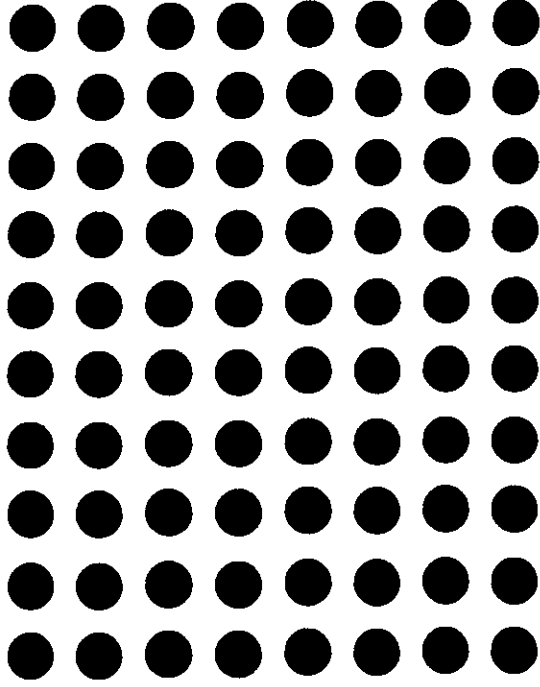
Array Card 7



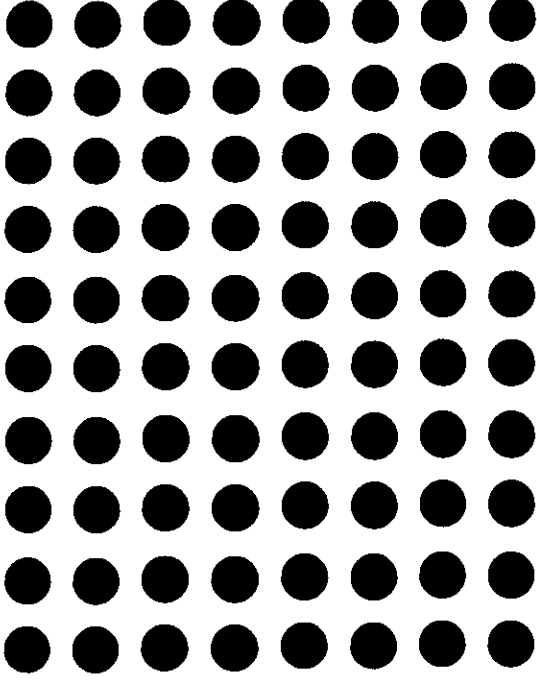
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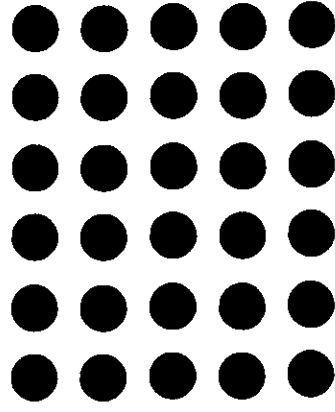
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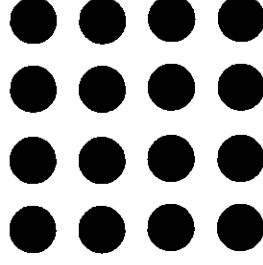
Array Card 10



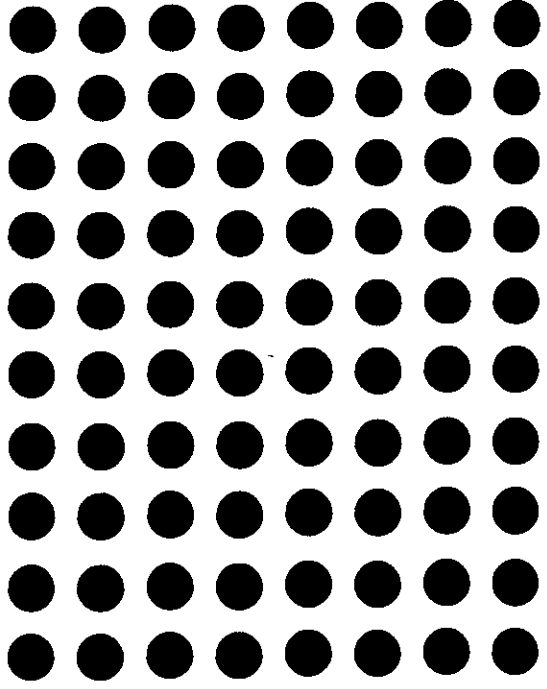
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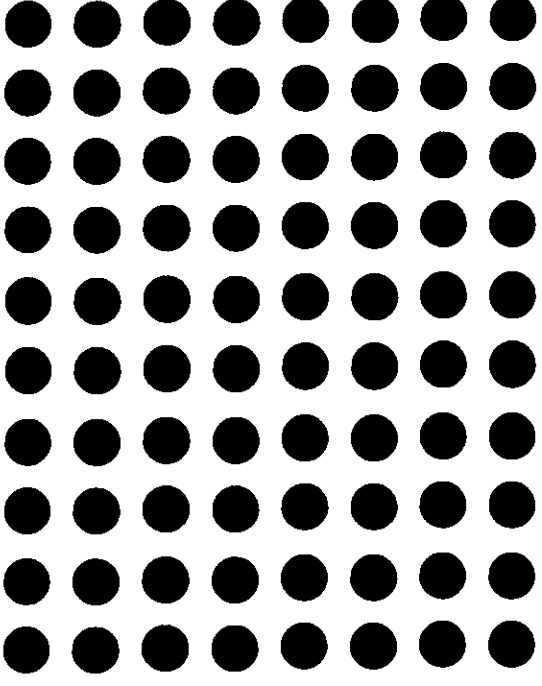
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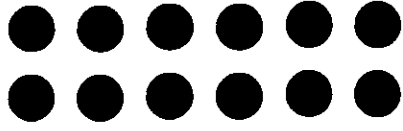
Array Card I3



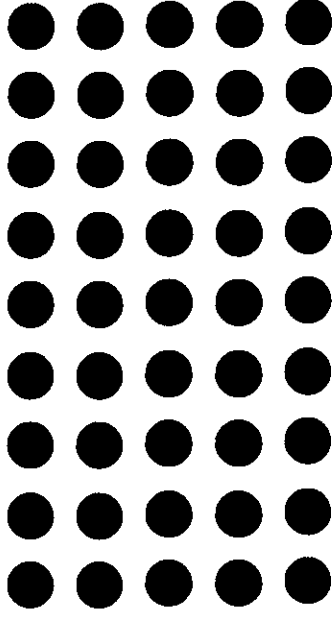
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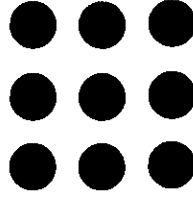
Array Card I5



Array Card I6



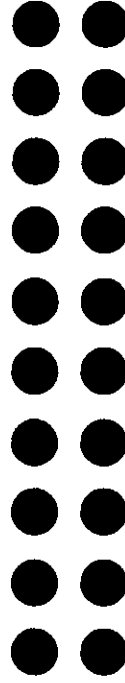
Array Card 17



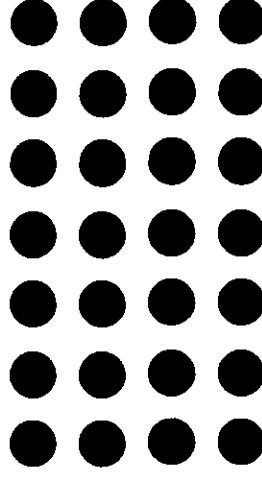
Array Card 18



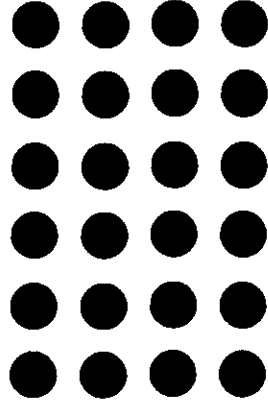
Array Card 19



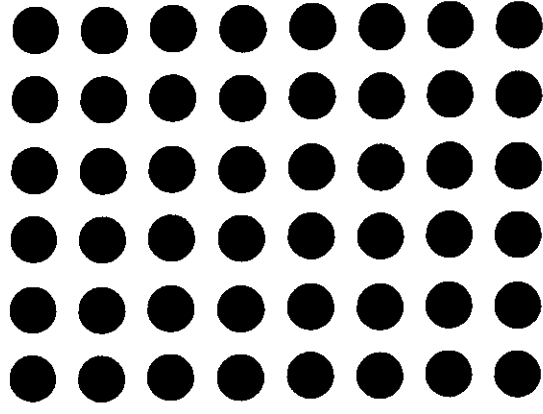
Array Card 20



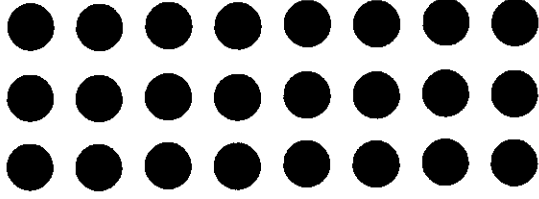
Array Card 21



Array Card 22



Array Card 23



Array Card 24

