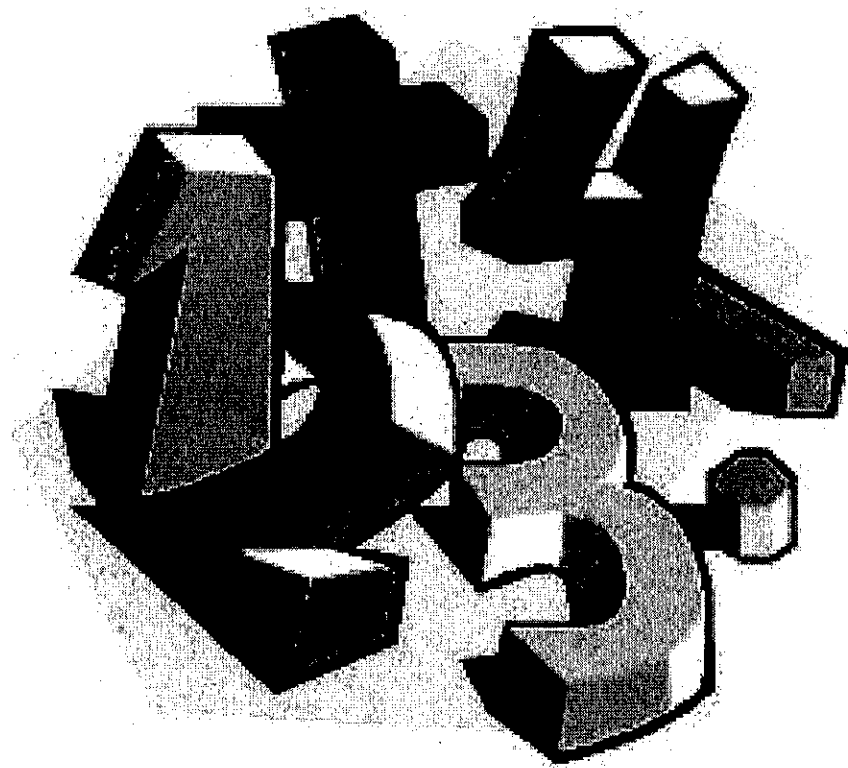


Math Games

Grade 3



Race to 100 or 1000

2.NBT.5

You will need: 2 sets of digit cards 0-9

1. Choose a partner. Put the digit cards in a pile.
2. Each partner chooses four digit cards from the pile and creates a 2-digit plus 2-digit addition equation. (or 3-digit plus 3-digit)
3. Solve the equation.

$$\begin{array}{|c|} \hline 6 \\ \hline \end{array} \begin{array}{|c|} \hline 1 \\ \hline \end{array} + \begin{array}{|c|} \hline 3 \\ \hline \end{array} \begin{array}{|c|} \hline 8 \\ \hline \end{array}$$

4. Compare the sums of both equations.
5. The partner that has a sum that is closer to 100 receives a point!
6. Continue to play until one partner has 10 points.



digit cards 0-9

0

1

2

3

4

5

6

7

8

9

0

1

2

3

4

5

6

7

8

9

XO Addition Squares OX

2.NBT.7

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 find the sum of the math expression in that square in their journal. Use expanded form to solve or any strategies that you are comfortable with.
 - 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!

Addition Squares

XO

$456 + 23$

$218 + 45$

$335 + 51$

$761 + 28$

$812 + 74$

$192 + 40$

$376 + 29$

$644 + 12$

$847 + 41$

$231 + 59$

$555 + 33$

$620 + 64$

$549 + 30$

$781 + 17$

$274 + 27$

$801 + 78$

Addition Squares

XO

$450 + 327$

$234 + 152$

$681 + 116$

$428 + 241$

$567 + 231$

$624 + 363$

$495 + 202$

$316 + 503$

$171 + 112$

$435 + 312$

$107 + 402$

$713 + 185$

$381 + 313$

$239 + 520$

$610 + 137$

$337 + 121$

Addition Squares

XO

$420 + 192$

$717 + 108$

$384 + 395$

$193 + 124$

$568 + 413$

$192 + 436$

$281 + 375$

$491 + 337$

$656 + 128$

$162 + 137$

$555 + 389$

$625 + 278$

$348 + 309$

$489 + 311$

$464 + 327$

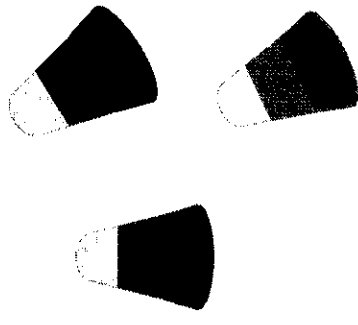
$125 + 835$

Division Match:

Dividing by 2, 5, 10

3.OA.7

Set up the cards like a memory game. Each player turns over two cards. Match the division equation to the answer.



$$20 \div 4$$



$$20 \div 5$$



$$25 \div 5$$



4



5



5



$$30 \div 6$$



$$30 \div 5$$



$$35 \div 7$$



5



6



5



$$35 \div 5$$



$$40 \div 8$$



$$40 \div 5$$



5



5



8



$$45 \div 9$$



$$45 \div 5$$



$$50 \div 10$$



5



9



10



$50 \div 5$



$2 \div 1$



$2 \div 2$



10



2



1



$4 \div 2$



$6 \div 2$



$6 \div 3$



2



3



2



$8 \div 2$



$8 \div 4$



$10 \div 2$



4



2



5



$10 \div 5$



$12 \div 2$



$12 \div 6$



2



6



2



$14 \div 2$



$14 \div 7$



$16 \div 2$



7



2



8



$16 \div 8$



$18 \div 2$



$18 \div 9$



2



9



2




$$20 \div 2$$


$$20 \div 10$$


$$10 \div 1$$



2



10



10


$$10 \div 10$$


$$20 \div 10$$


$$20 \div 2$$



1



2



10


$$30 \div 10$$


$$30 \div 3$$


$$40 \div 10$$

3

10

4


$$40 \div 4$$


$$50 \div 5$$


$$50 \div 10$$

10

10

5


$$60 \div 10$$


$$60 \div 6$$


$$70 \div 10$$

6

10

7


$$70 \div 7$$


$$80 \div 8$$



$$80 \div 10$$

10

10

8


$$90 \div 10$$
$$01 \div 06$$


$$90 \div 9$$
$$06$$


$$100 \div 10$$


$$9$$


$$10$$


$$10$$

Division: Missing Number Equations

You will need: sets of number circle cards (0-10), game boards (if laminated, you will also need dry erase markers)

1. Choose a Missing Numbers task card.
2. Place some of your number cards on the task card to complete the equations.
3. Repeat with other task cards.

Challenge: Create your own Missing Numbers task card for a friend! Remember, you must have 10 equations!

$$12 \div 6 = \bigcirc$$

$$20 \div 4 = \bigcirc$$

$$30 \div 5 = \bigcirc$$

$$40 \div \bigcirc = 4$$

$$15 \div \bigcirc = 5$$

$$5 \div \bigcirc = 5$$

$$\bigcirc \div 2 = 2$$

$$12 \div 2 = \bigcirc$$

$$14 \div \bigcirc = 2$$

$$\bigcirc \div 2 = 4$$

$$4 \div 4 = \bigcirc$$

$$32 \div 4 = \bigcirc$$

$$20 \div 5 = \bigcirc$$

$$30 \div \bigcirc = 3$$

$$15 \div \bigcirc = 5$$

$$25 \div \bigcirc = 5$$

$$\bigcirc \div 1 = 2$$

$$12 \div 2 = \bigcirc$$

$$14 \div \bigcirc = 2$$

$$\bigcirc \div 1 = 9$$

$$18 \div 2 = \bigcirc$$

$$32 \div 4 = \bigcirc$$

$$30 \div 5 = \bigcirc$$

$$12 \div \bigcirc = 4$$

$$9 \div \bigcirc = 9$$

$$28 \div \bigcirc = 7$$

$$\bigcirc \div 2 = 0$$

$$50 \div 10 = \bigcirc$$

$$21 \div \bigcirc = 3$$

$$12 \div \bigcirc = 6$$

$$27 \div 3 = \bigcirc$$

$$5 \div 5 = \bigcirc$$

$$20 \div 10 = \bigcirc$$

$$35 \div \bigcirc = 7$$

$$40 \div \bigcirc = 10$$

$$12 \div \bigcirc = 2$$

$$\bigcirc \div 2 = 4$$

$$10 \div 1 = \bigcirc$$

$$63 \div 9 = \bigcirc$$

$$12 \div 4 = \bigcirc$$

$$25 \div 5 = \bigcirc$$

$$7 \div 7 = \bigcirc$$

$$30 \div 10 = \bigcirc$$

$$16 \div \bigcirc = 8$$

$$36 \div \bigcirc = 6$$

$$27 \div \bigcirc = 3$$

$$\bigcirc \div 2 = 5$$

$$24 \div 6 = \bigcirc$$

$$32 \div 4 = \bigcirc$$

$$42 \div 6 = \bigcirc$$

$$0 \div 5 = \bigcirc$$

$$21 \div 7 = \bigcirc$$

$$18 \div 9 = \bigcirc$$

$$40 \div \bigcirc = 8$$

$$36 \div \bigcirc = 9$$

$$9 \div \bigcirc = 9$$

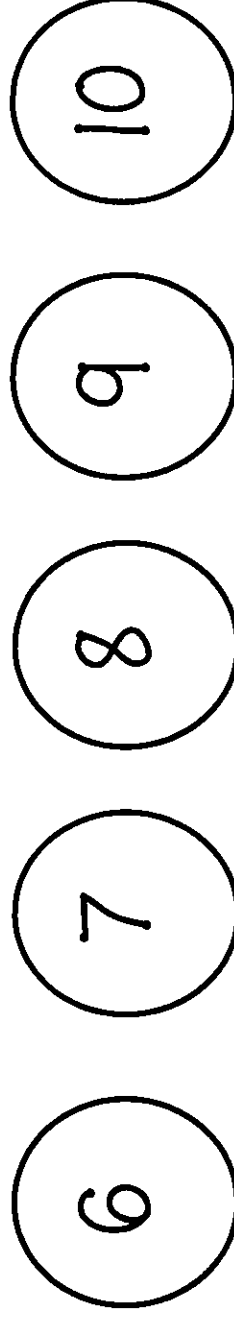
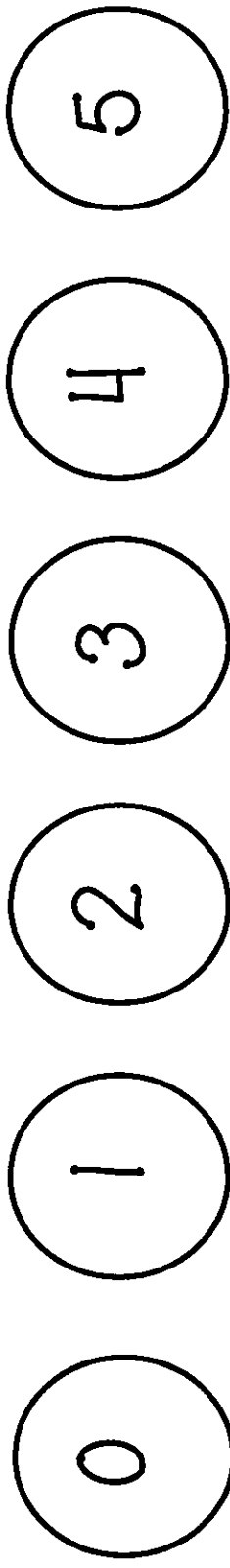
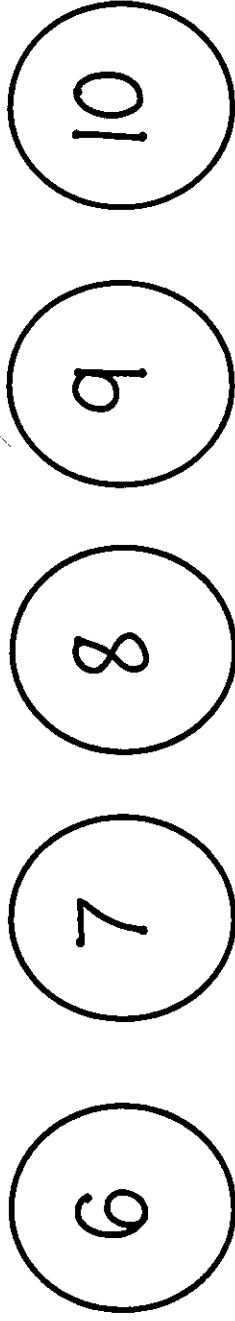
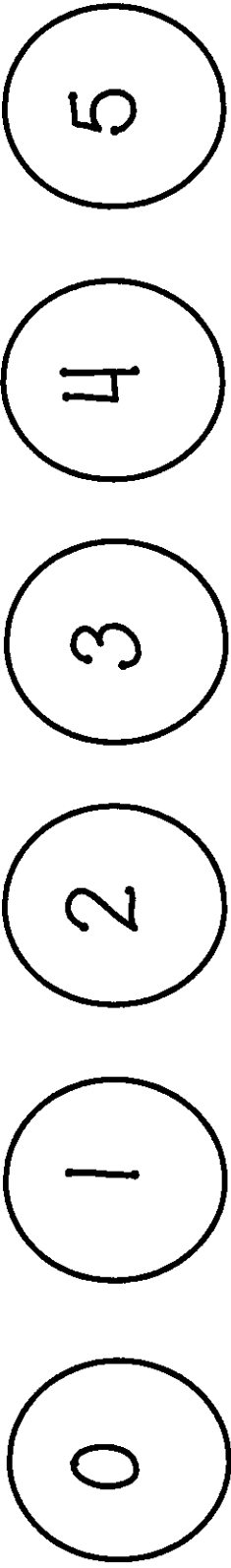
$$\bigcirc \div 2 = 3$$

$$64 \div \bigcirc = 8$$

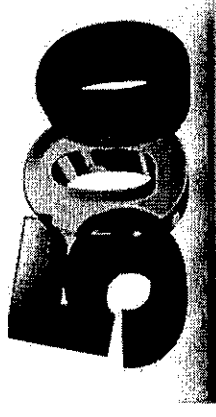
$$54 \div 9 = \bigcirc$$

$$27 \div 3 = \bigcirc$$

number circles 0-10



Race to 500



You will need: something to write on (paper, journal or whiteboard), digit cards (0-9)

1. Deal four digit cards to each person.
2. Use your four digit cards to make two 2-digit numbers.
Example: Mary has the cards 3, 5, 7, 2.
She makes the numbers 57 and 23.
3. Find the difference between your two numbers. This is your score for round one.
Example: $57 - 23 = 34$.
Mary's score for round one is 34.
4. Shuffle the cards and repeat. Add your score to your score from the previous round.
5. Continue playing until one player's score reaches 500.

digit cards 0-9

0

5

4

3

2

1

6

7

8

9

0

5

4

3

2

1

6

7

8

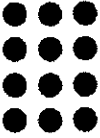
9

Turn Around Arrays

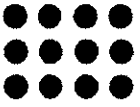
3.OA.5

You will need: array cards, recording sheet, pencil or dry erase marker

- Choose an array card.
- Draw the array on the card and write the multiplication equation it represents.



$3 \times 4 = 12$





$4 \times 3 = 12$
- Turn your array so that the rows become columns and the columns are now rows.

4. Repeat the steps above to complete the If, then statement. Draw the array write the multiplication equation it represents.

If $3 \times 4 = 12$
then $4 \times 3 = 12$.

5. Explain how these multiplication equations and arrays show the Commutative Property of Multiplication.

6. Repeat with a different array card.

Array & Equation	Turn Around Array & Equation	Commutative Property Statement
		If $\underline{\quad} \times \underline{\quad} = \underline{\quad}$ then $\underline{\quad} \times \underline{\quad} = \underline{\quad}$.
		If $\underline{\quad} \times \underline{\quad} = \underline{\quad}$ then $\underline{\quad} \times \underline{\quad} = \underline{\quad}$.
		If $\underline{\quad} \times \underline{\quad} = \underline{\quad}$ then $\underline{\quad} \times \underline{\quad} = \underline{\quad}$.
		If $\underline{\quad} \times \underline{\quad} = \underline{\quad}$ then $\underline{\quad} \times \underline{\quad} = \underline{\quad}$.
		If $\underline{\quad} \times \underline{\quad} = \underline{\quad}$ then $\underline{\quad} \times \underline{\quad} = \underline{\quad}$.

Name: _____

Turn Around Arrays

Array & Equation	Turn Around Array & Equation	Commutative Property Statement
		If $___ \times ___ = ___$ then $___ \times ___ = ___$.
		If $___ \times ___ = ___$ then $___ \times ___ = ___$.
		If $___ \times ___ = ___$ then $___ \times ___ = ___$.
		If $___ \times ___ = ___$ then $___ \times ___ = ___$.
		If $___ \times ___ = ___$ then $___ \times ___ = ___$.

What's the Equation?

3.OA.1

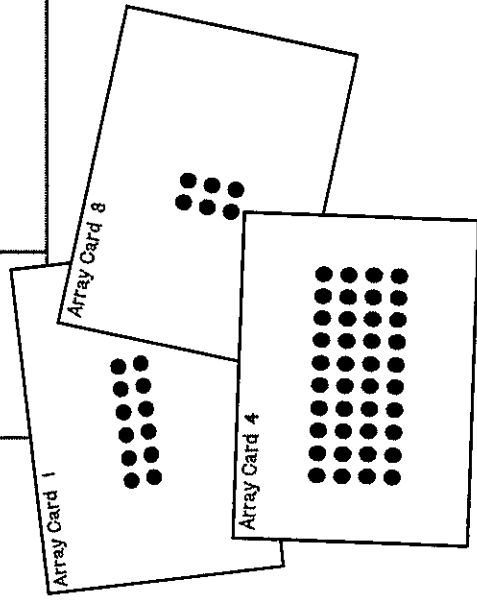
You will need: array cards, recording sheet, pencil/whiteboard marker

Name _____

3.OA.1

1. Choose an array card from the bag.
2. Record the Card Number.
3. Write a multiplication equation to match your array picture card.
4. Repeat with other array cards.

Array Card Number	What's the Equation? Recording Sheet Multiplication Equation



Name _____

What's the Equation? Recording Sheet

Array Card Number	Multiplication Equation

Name _____

What's the Equation? Recording Sheet

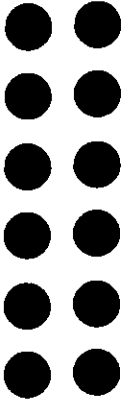
Array Card Number	Multiplication Equation

Name _____

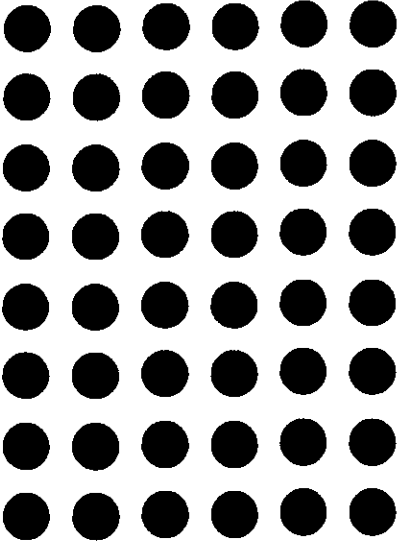
What's the Equation? Recording Sheet

Array Card Number	Multiplication Equation	Array Card Number	Multiplication Equation

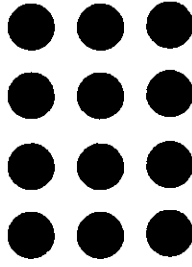
Array Card 1



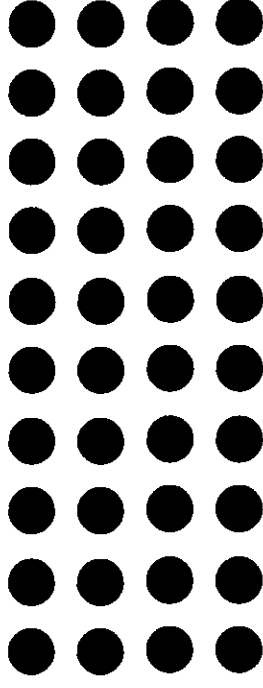
Array Card 2



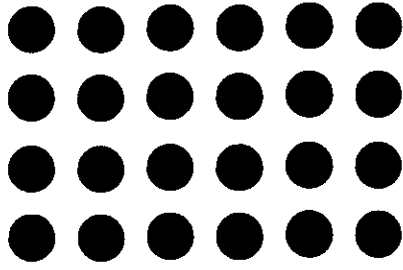
Array Card 3



Array Card 4



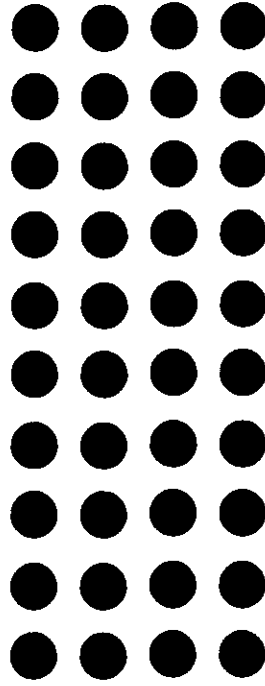
Array Card 5



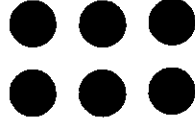
Array Card 6



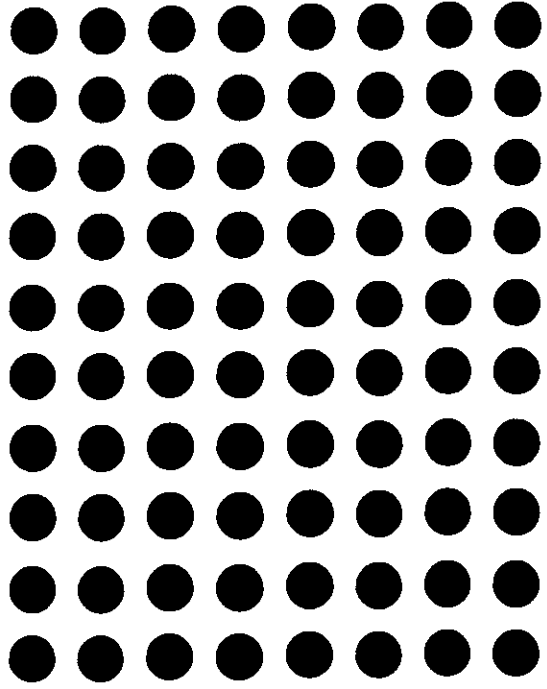
Array Card 7



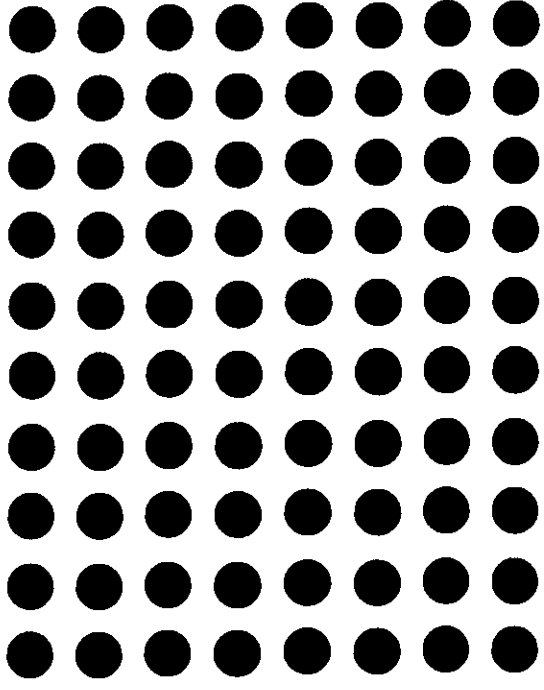
Array Card 8



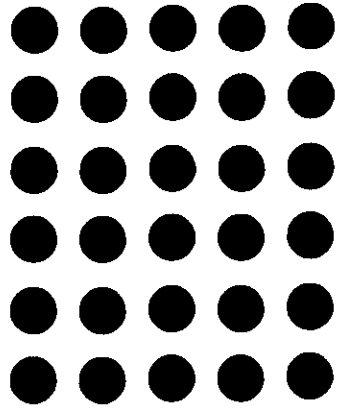
Array Card 9



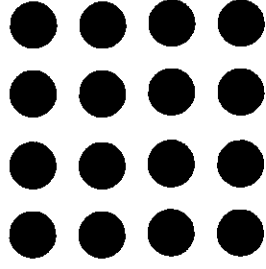
Array Card 10



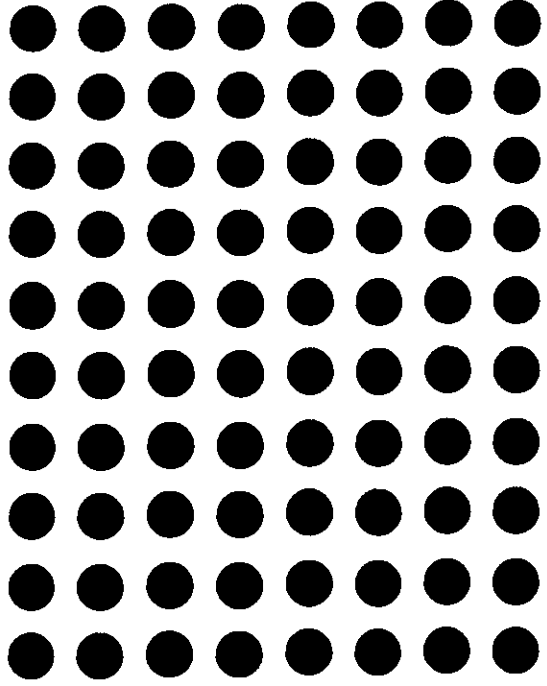
Array Card 11



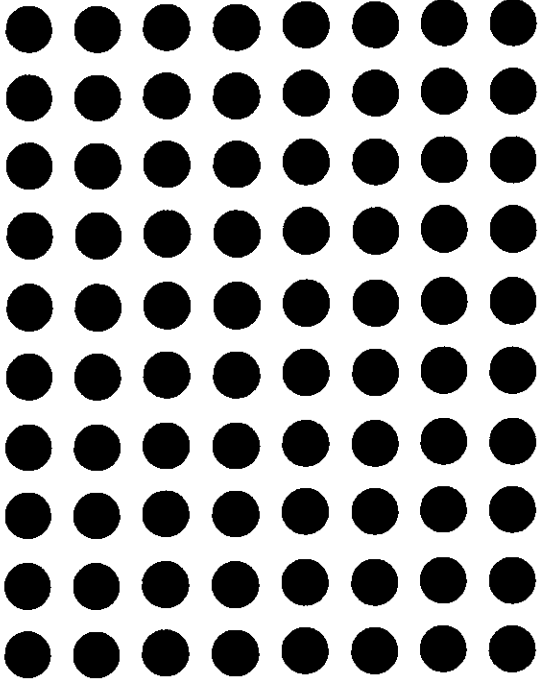
Array Card 12



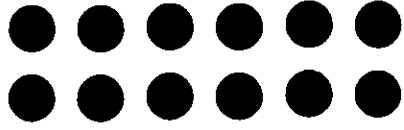
Array Card I3



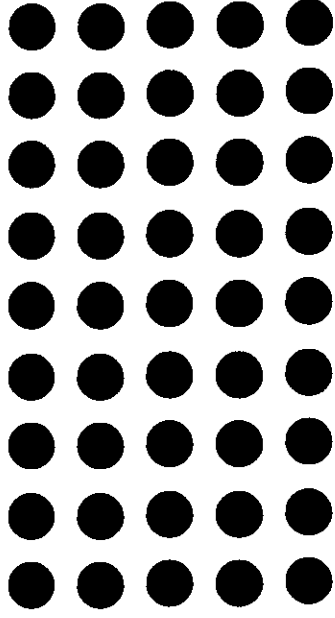
Array Card I4



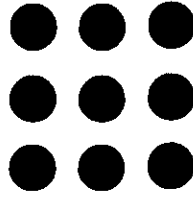
Array Card I5



Array Card I6



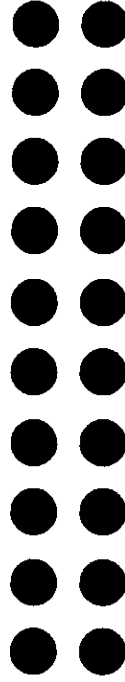
Array Card 17



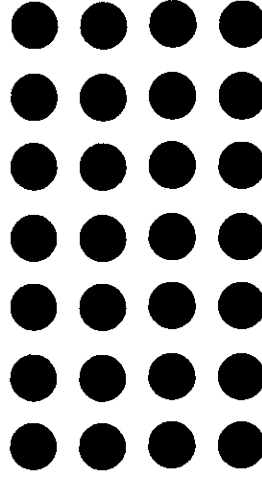
Array Card 18



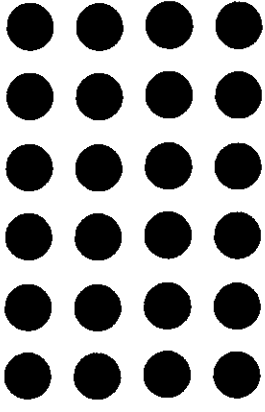
Array Card 19



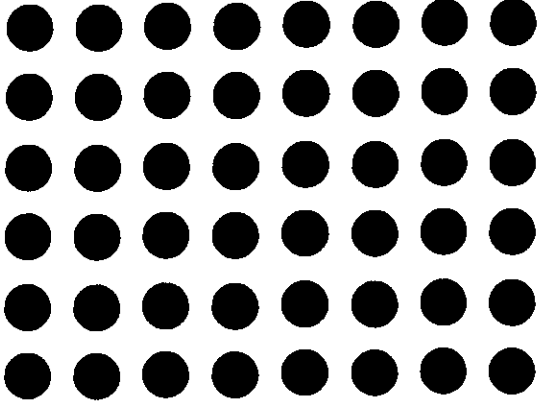
Array Card 20



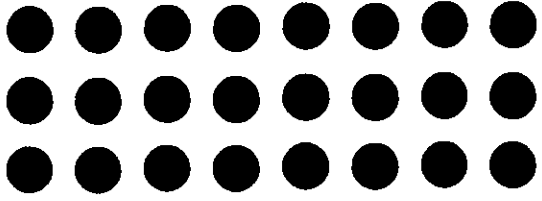
Array Card 21



Array Card 22



Array Card 23



Array Card 24

