An Introduction to MULTIPLICATION

3rd Grade

Printable & Google Slides

MagiCORE

UNDERSTANDING MULTIPLICATION

3rd grade

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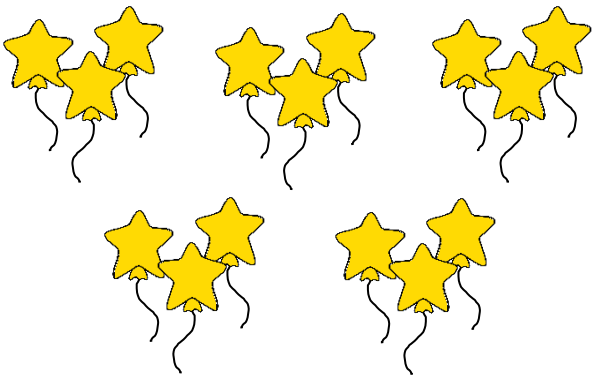
UNDERSTANDING multiplication

factor → 5 x 3 = 15 ← product

factor ↑

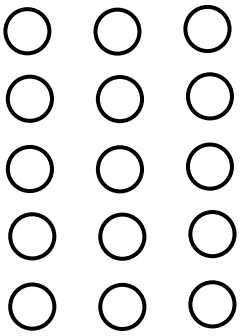
EQUAL GROUPS



5 groups with 3 in each

5 x 3 = 15

ARRAYS



5 rows with 3 in each

5 x 3 = 15

REPEATED ADDITION

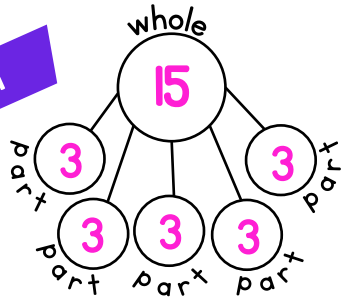
3 + 3 + 3 + 3 + 3 = 15

Five 3s added together

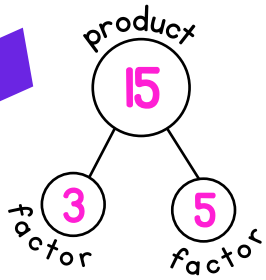
5 x 3 = 15

NUMBER BOND

addition



multiplication

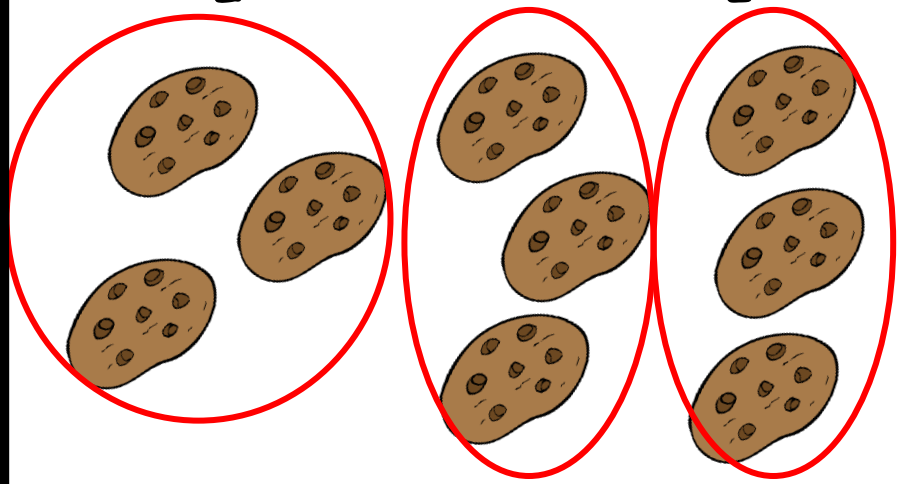


5 x 3 = 15

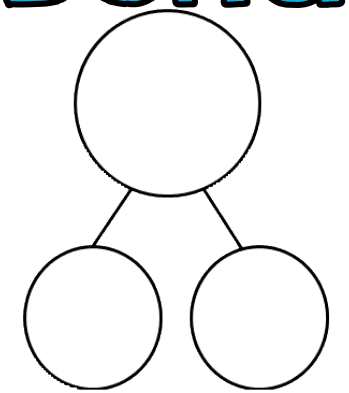
Repeated Addition

$4 + 4 + 4 = 4 \times 3$

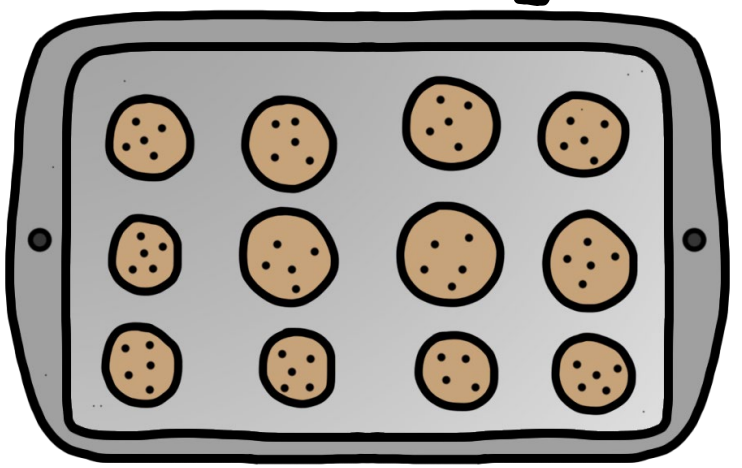
Equal Groups



Number Bond



Arrays



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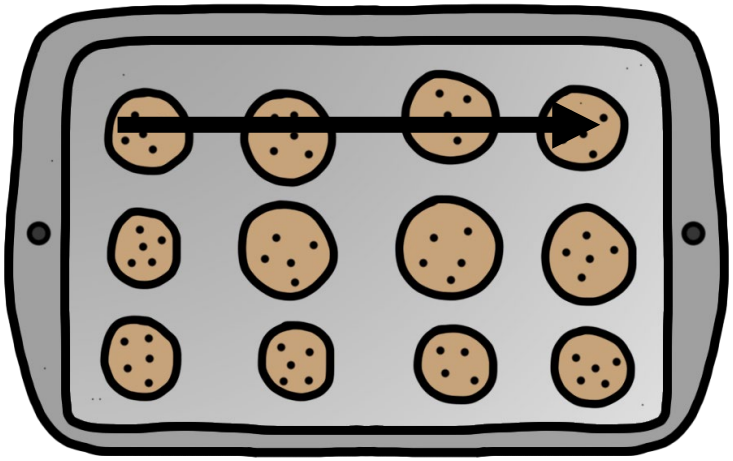
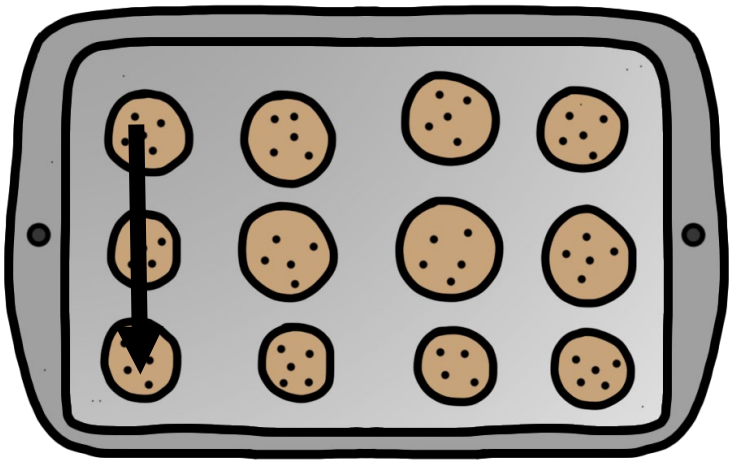
Row



Product

$5 \times 3 = 15$

Column



Factor

$5 \times 3 = 15$

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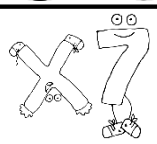


7 x 0 = _____

7 x 1 = _____

7 x 2 = _____

7 x 3 = _____

7 x 4 = _____

7 x 5 = _____

7 x 6 = _____

7 x 7 = _____

7 x 8 = _____

7 x 9 = _____

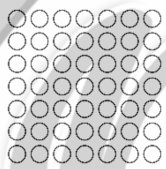
7 x 10 = _____

7 x 11 = _____

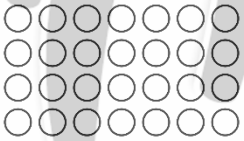
7 x 12 = _____

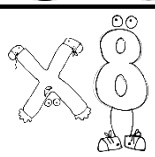
Write the equation:

___ × ___ =



___ × ___ =





8 x 0 = _____

8 x 1 = _____

8 x 2 = _____

8 x 3 = _____

8 x 4 = _____

8 x 5 = _____

8 x 6 = _____

8 x 7 = _____

8 x 8 = _____

8 x 9 = _____

8 x 10 = _____

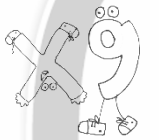
8 x 11 = _____

8 x 12 = _____

Draw:

8 × 2 =

5 × 8 =



9 x 0 = _____

9 x 1 = _____

9 x 2 = _____

9 x 3 = _____

9 x 4 = _____

9 x 5 = _____

9 x 6 = _____

9 x 7 = _____

9 x 8 = _____

9 x 9 = _____

9 x 10 = _____

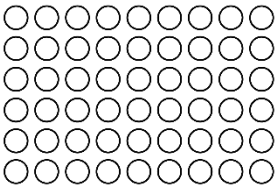
9 x 11 = _____

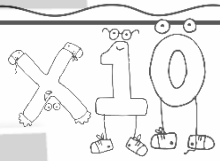
9 x 12 = _____

Write the equation:

___ × ___ =

___ × ___ =





10 x 0 = _____

10 x 1 = _____

10 x 2 = _____

10 x 3 = _____

10 x 4 = _____

10 x 5 = _____

10 x 6 = _____

10 x 7 = _____

10 x 8 = _____

10 x 9 = _____

10 x 10 = _____

10 x 11 = _____

10 x 12 = _____

Draw:

10 × 4 =

3 × 10 =

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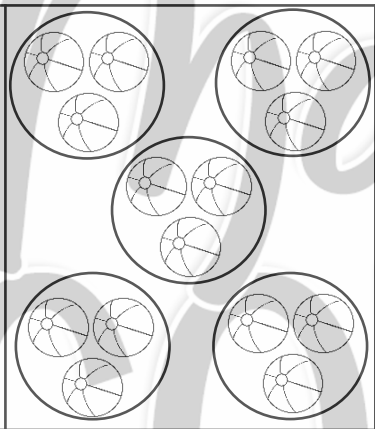
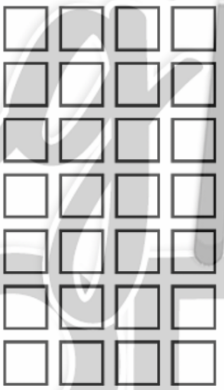
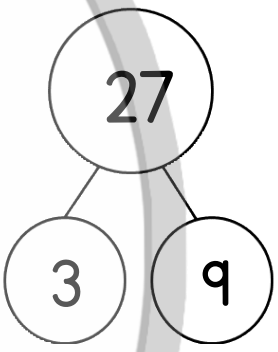
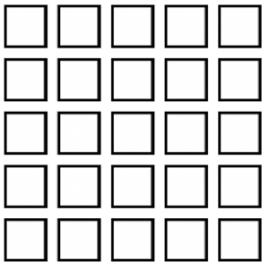
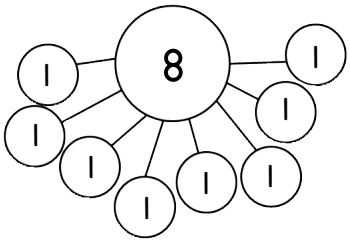
Multiplication Memory

Directions: Cut out and shuffle the cards. Place them face down in neat rows. Flip over any two cards. The goal is to flip over a repeated addition, array, equal group, or number bond and the multiplication equation it represents. If you get a pair, take the matching cards and keep them. If you do not get a pair, flip the cards back over. Play one of three ways:

Independently: Time yourself. How quickly you can find all the matches?
Collaboratively: Work cooperatively with a friend to see how quickly you can find all the matches together
Competitively: Take turns with a friend flipping over two cards per turn. Who can get more matches?

Pay attention to the cards the other player turns over!

2 + 2 + 2 + 2 + 2 + 2 = 12			
9 x 3 = 27	8 x 1 = 8	3 x 5 = 15	5 x 5 = 25
7 x 4 = 28			6 x 2 = 12

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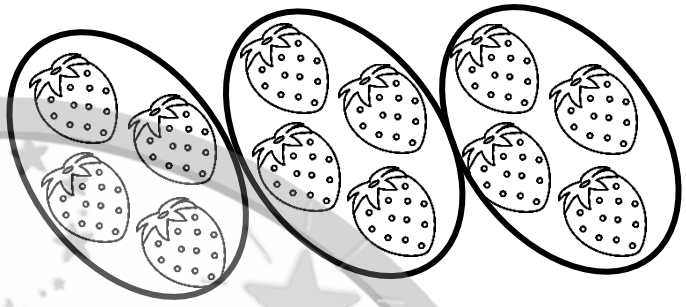
Name: _____ Date: _____

Equal Groups

Directions: Write the repeated addition and multiplication equation that matches the picture.

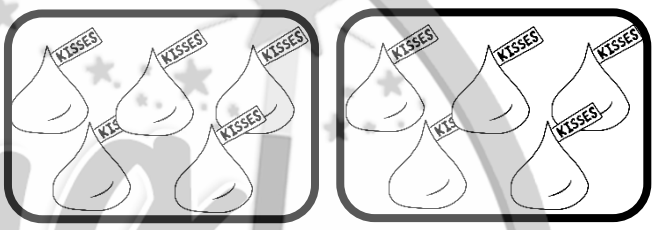
1. Repeated addition equation: _____

Multiplication equation: _____ x _____ = _____



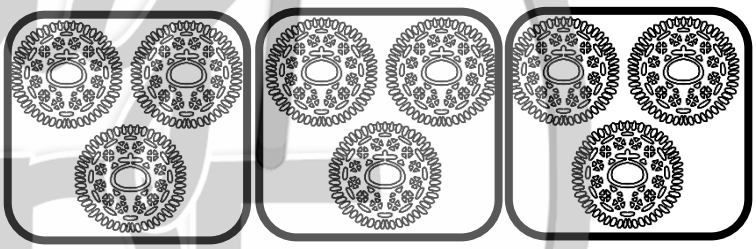
2. Repeated addition equation: _____

Multiplication equation: _____ x _____ = _____



3. Repeated addition equation: _____

Multiplication equation: _____ x _____ = _____

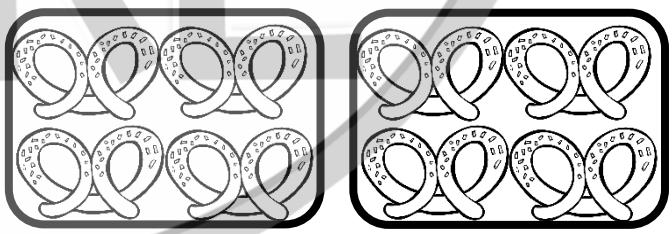


4. Repeated addition equation: _____

Multiplication equation: _____ x _____ = _____

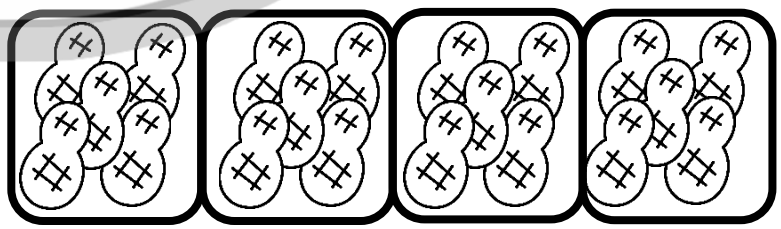
5. Repeated addition equation: _____

Multiplication equation: _____ x _____ = _____



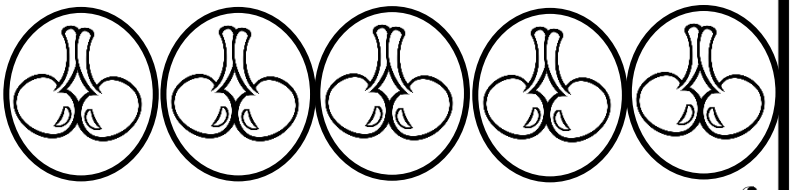
6. Repeated addition equation: _____

Multiplication equation: _____ x _____ = _____



7. Repeated addition equation: _____

Multiplication equation: _____ x _____ = _____



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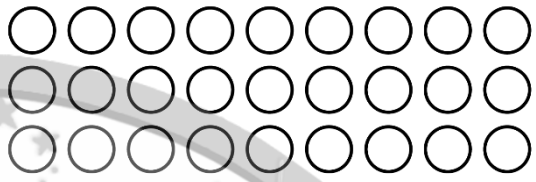
Name: _____ Date: _____

Arrays

Directions: Write the repeated addition and multiplication equation that matches the picture.

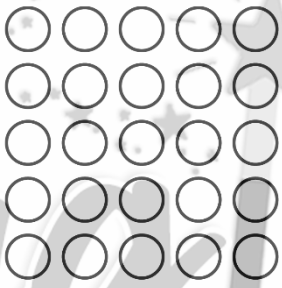
1. Repeated addition equation: _____

Multiplication equation: _____ x _____ = _____



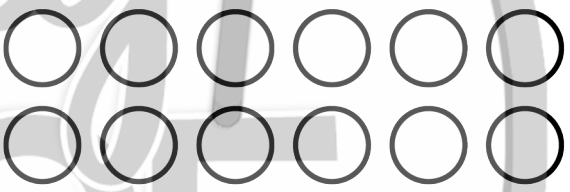
2. Repeated addition equation: _____

Multiplication equation: _____ x _____ = _____



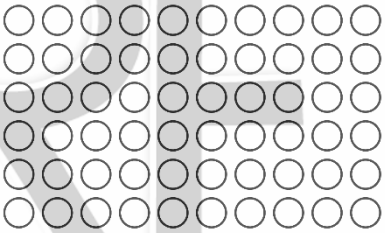
3. Repeated addition equation: _____

Multiplication equation: _____ x _____ = _____



4. Repeated addition equation: _____

Multiplication equation: _____ x _____ = _____

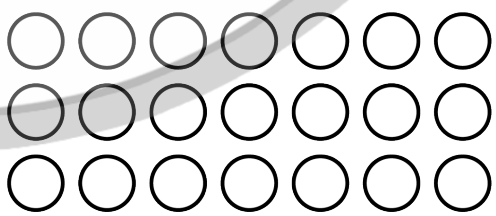


5. Repeated addition equation: _____

Multiplication equation: _____ x _____ = _____

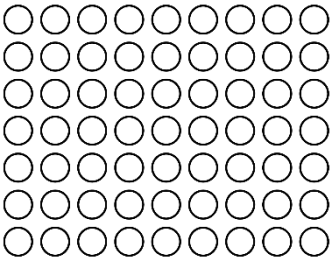
6. Repeated addition equation: _____

Multiplication equation: _____ x _____ = _____



7. Repeated addition equation: _____

Multiplication equation: _____ x _____ = _____



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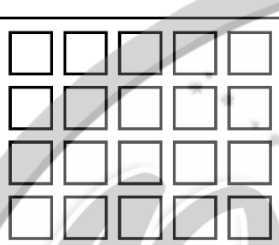
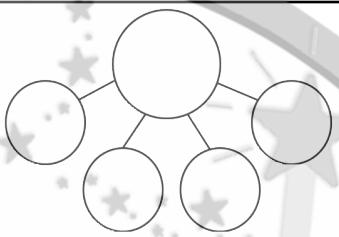
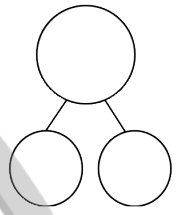
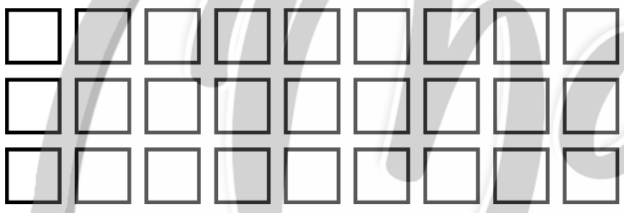
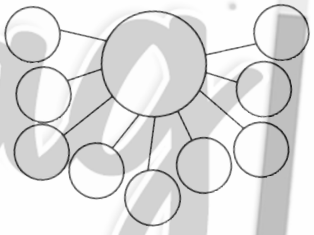
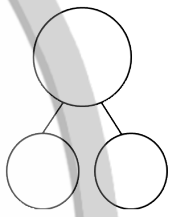
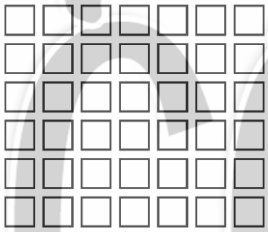
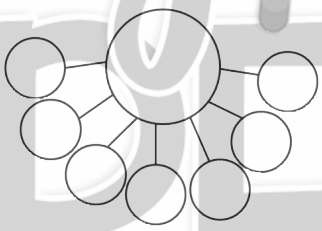
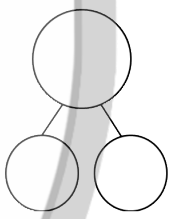
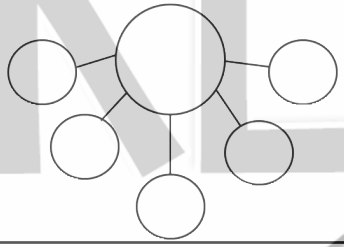
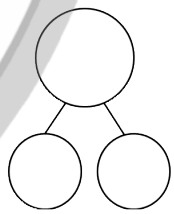
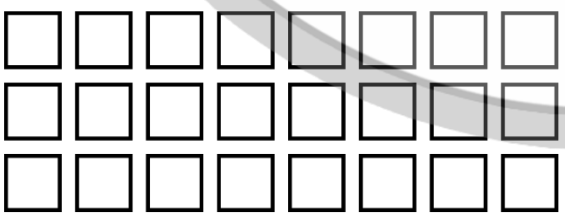
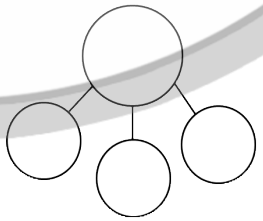
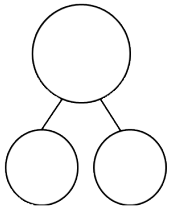
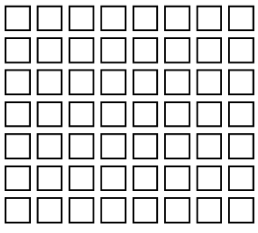
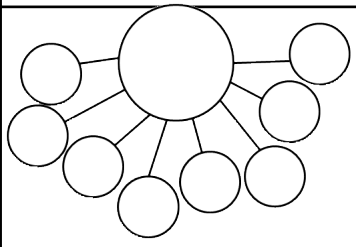
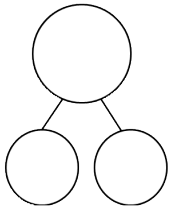
Name: _____ Date: _____

Number Bonds

Directions: Fill in the missing addends and sums in the addition number bonds. Fill in the missing factors and products in the multiplication number bonds.

	Array	Addition Number Bond	Multiplication Number Bond
1.			
2.			
3.			
4.			
5.			
6.			

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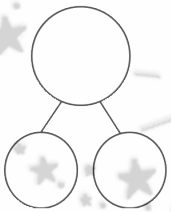
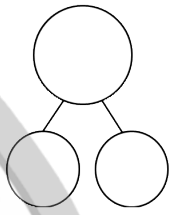
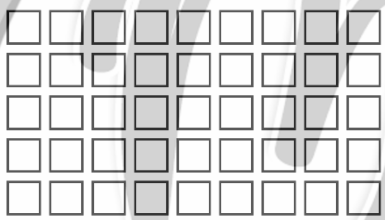
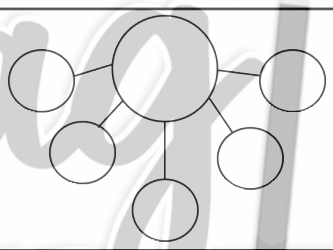
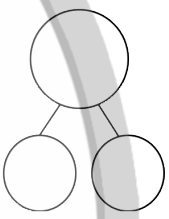
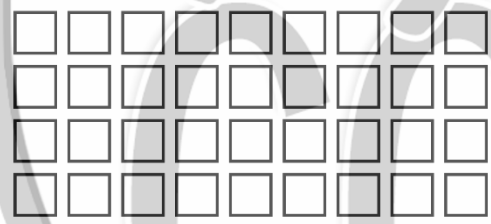
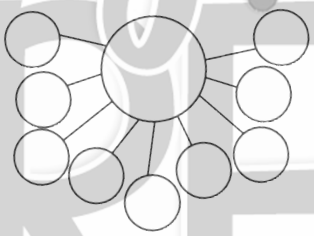
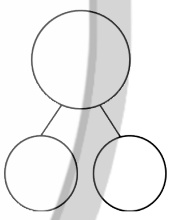
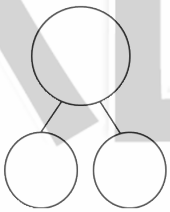
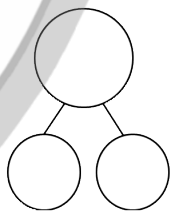
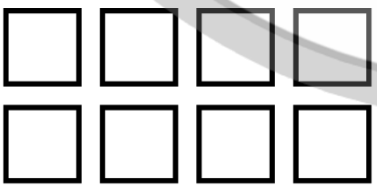
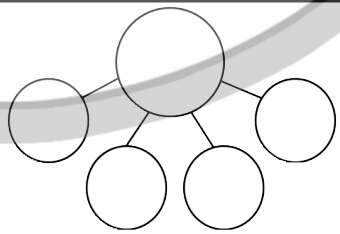
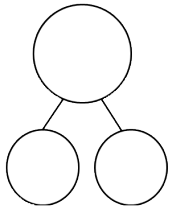
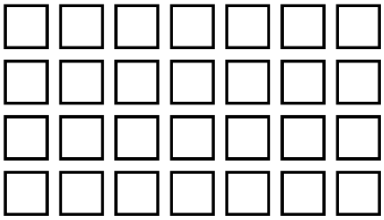
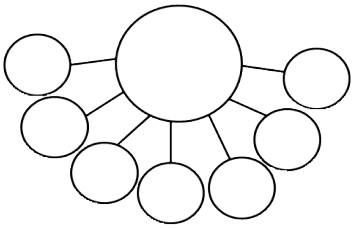
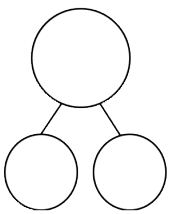
Name: _____ Date: _____

Number Bonds

Directions: Fill in the missing addends and sums in the addition number bonds. Fill in the missing factors and products in the multiplication number bonds.

	Array	Addition Number Bond	Multiplication Number Bond
1.			
2.			
3.			
4.			
5.			
6.			

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Cherry Picking

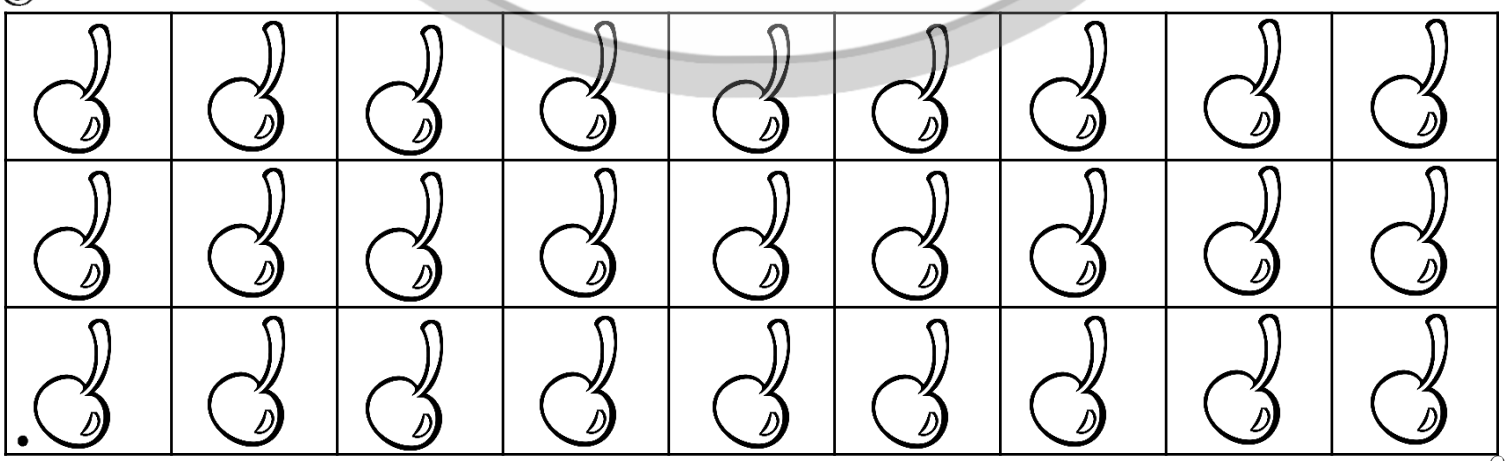
Directions: Solve the following word problem using the pictures to help you.

Charlie went cherry picking and needs to sort his cherries. If Charlie has 12 bags with two cherries in each bag, how many cherries does Charlie have in all?

Addition equation: _____

Multiplication equation: _____

Answer: _____



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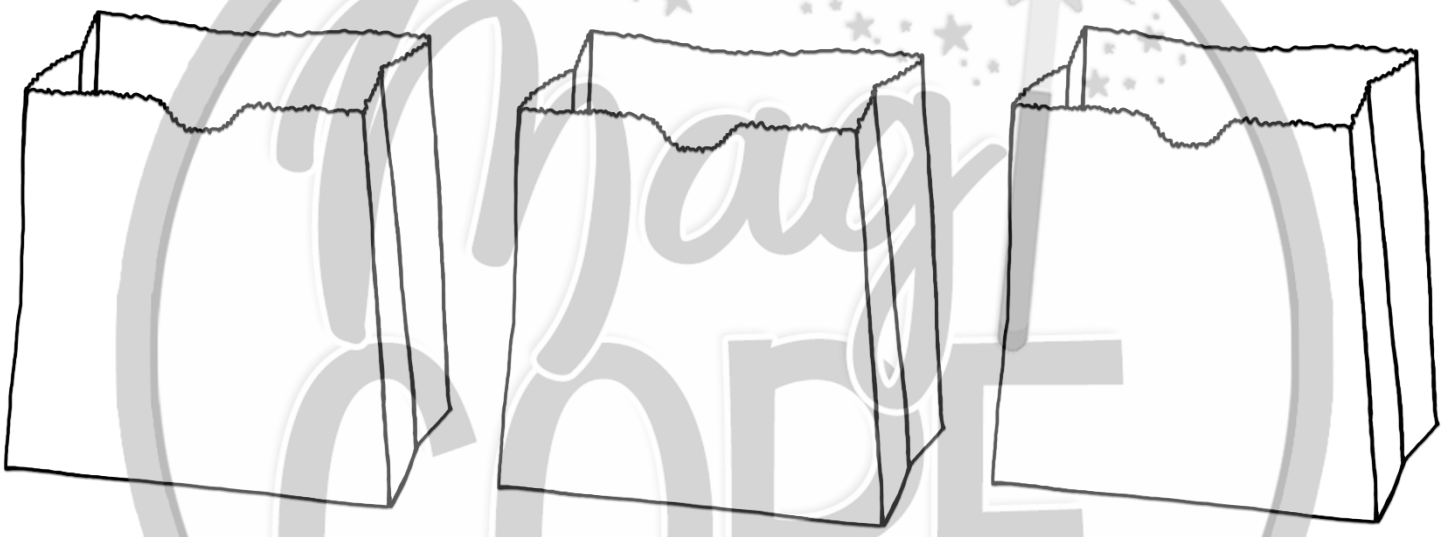
Grocery Shopping

Directions: Solve the following word problem using the pictures to help you.

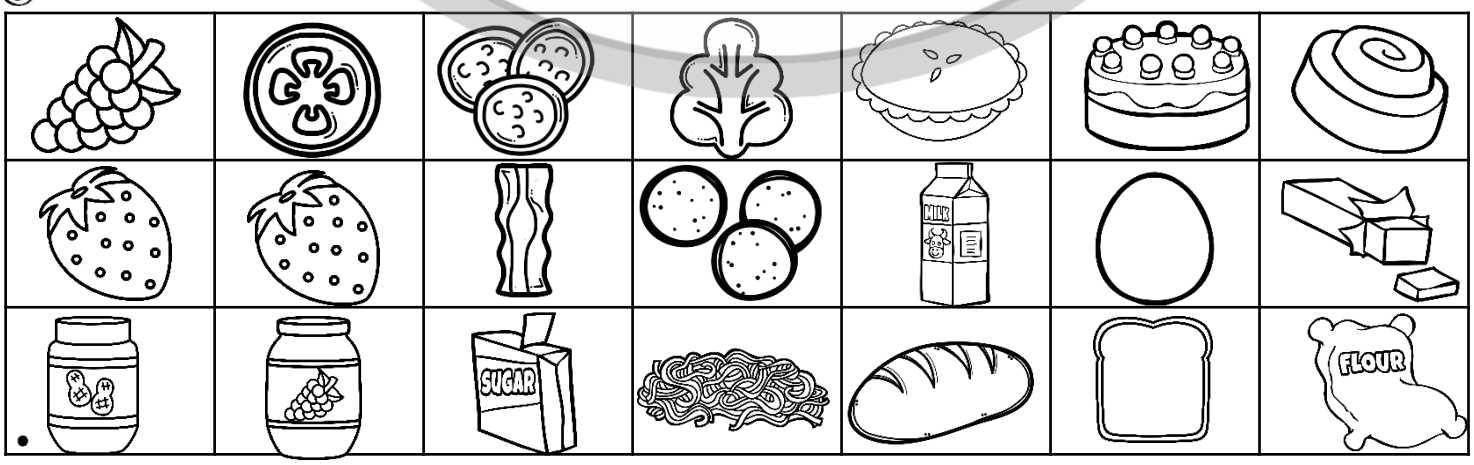
Clara went grocery shopping. She put 7 groceries in 3 different bags. There is an equal number of groceries in each bag. How many groceries did Clara buy altogether?



Addition equation: _____

Multiplication equation: _____

Answer: _____



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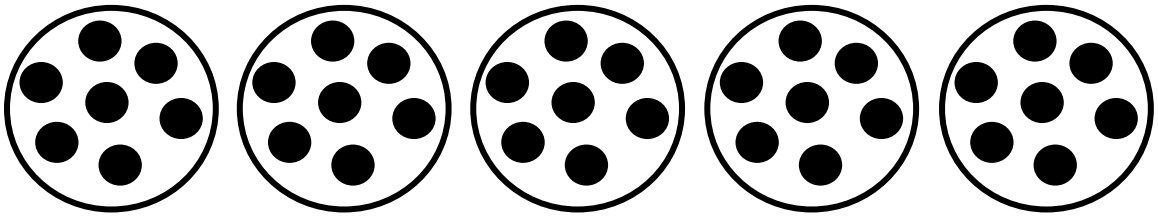
5. The circles below show five groups of seven.



a. Redraw the circles to show an array that shows five rows and seven columns.

b. How is the drawing similar to your array?

c. How is the drawing different from your array?

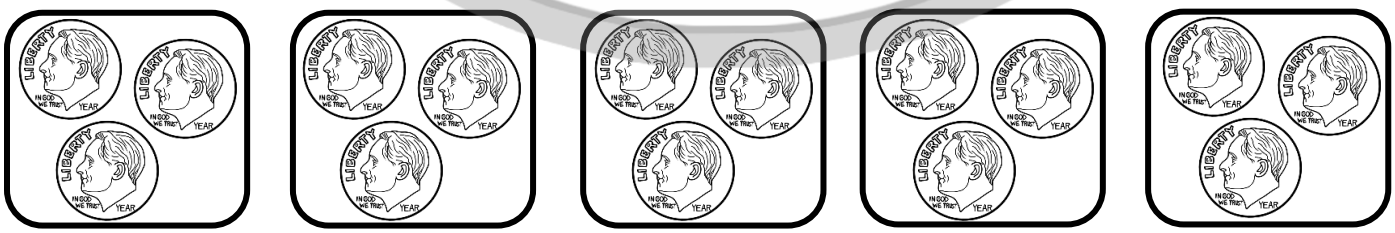
6. There are 3 dots in each column. How many dots are in _____ columns?

a. Number of columns: _____ Size of each column: _____

b. _____ × _____ = _____

c. There are _____ dots altogether.

7. There are 3 dimes in each group. How many dimes are in 5 groups?



a. Number of groups: _____ Size of each group: _____

b. _____ × _____ = _____

c. There are _____ dimes altogether.

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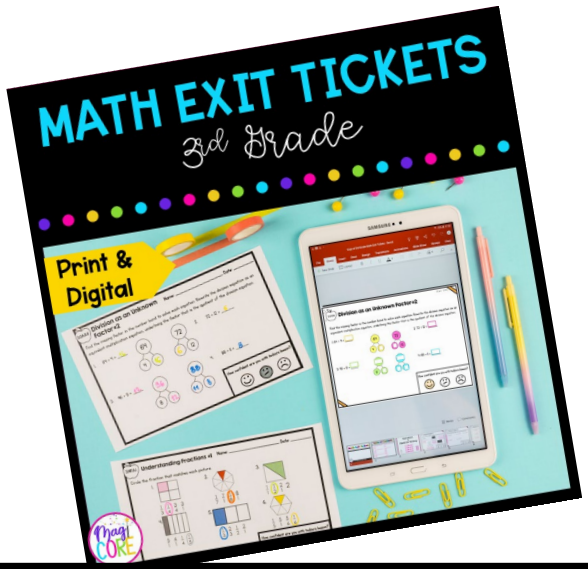

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