Multiplication

Math Moments For Third Grade

October 2013

Beginning strategies to use:

5 X 3 = 15

Number of groups X number in each group

Repeated addition

2 + 2+ 2= 6

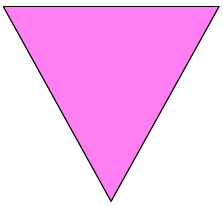
Arrays

4 X 3= 12

Skip Counting

2, 4, 6, 8, 10, 12

Fact Family Triangles



Properties of Multiplication:

Identity Property

Any number multiplied by one stays that number

Example:

6 X 1 = 6

Zero Property

Any number multiplied by zero will always be zero

Example:

0 X 8 = 0

Distributive Property

Multiplying a sum by the number is the same as multiplying each addend by the number and then adding the products

Example:

3 X (4 + 2)= (3 x 4) + (3 x 2)

3 X 6 = 12 + 6

18 = 18

Commutative Property

You can multiply two factors in any order and get the same answer

Example:

2 X 4 = 8

4 X 2 = 8

Associative Property

When the grouping of factors is changed, the product remains the same

Example:

(3 x 2) x 4 = 24

3 X (2 x 4)= 24

Key vocabulary words:

Factor- two numbers which when multiplied together gives a certain product.

Product– answer to a multiplication problem

Learning the 5's

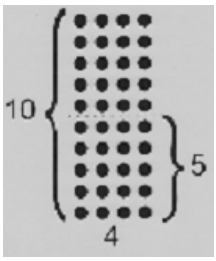
Half Fact:

4 x 5 is half of 4 x 10

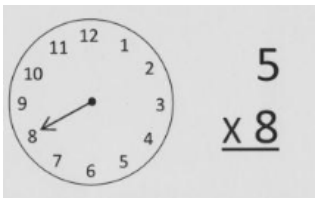
4 x 10 = 40

One half of 40 is 20

So, 4 x 5 = 20



Clock face:



Learning the 3's

Use the 2's plus one more group

Think 2 X 5= 10

plus one more group of 5

=

10 + 5=

So, 3 X 5= 15

Learning the 2's

Doubles:

2 x 4 = 8

4 + 4 = 8

Learning the 8's

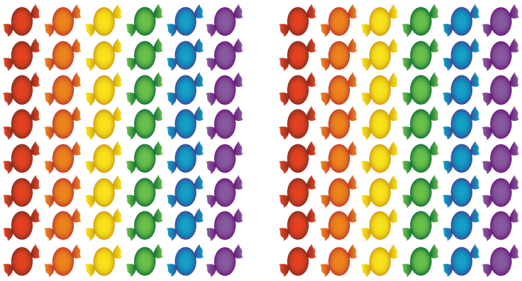
Half, and Double

8 X 6 =

↓ (half)

4 x 6= 24

24 + 24 = 48 (double)



Learning the 6's

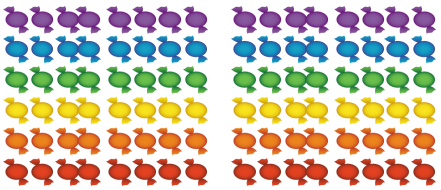
Half, and Double

6 X 8 =

↓ (half)

3 x 8= 24

24 + 24 = 48 (double)



Learning the 4's

Double, Double:

4 x 9 = 2 x 9 doubled

2 x 9=18

18 + 18= 36

so, 4 x 9= 36

Learning the 9's

use the 10's facts minus one set

9 X 6 =

THINK.....

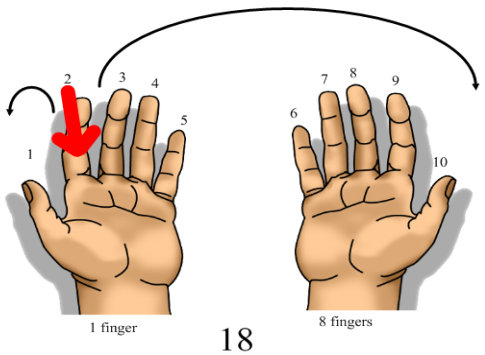
1 0 X 6 = 60

So, 60 − 6 = _____

Can you count?

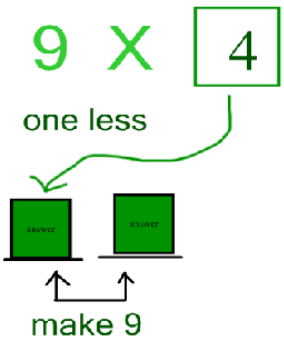
0	9
1	8
2	7
3	6
4	5
5	4
6	3
7	2
8	1
9	0

hand trick



18

Nifty Nines



Organization

This would be a good place to insert a short paragraph about your organization. It might include the purpose of the organization, its mission, founding date, and a brief history. You could also include a brief list of the types of products, services, or programs your organization offers, the geographic area covered (for example, western U.S. or European markets), and a profile of the types of customers or members served.

It would also be useful to include a contact name for readers who want more information about the organization.

Microsoft

Primary Business Address
Address Line 2
Address Line 3
Address Line 4

Phone: 555-555-5555
Fax: 555-555-5555
E-mail:
someone@example.com

We're on the Web!
example.com

Business Tagline or Motto

Back Page Story Headline

This story can fit 175-225 words.

If your newsletter is folded and mailed, this story will appear on the back. So, it's a good idea to make it easy to read at a glance.

A question and answer session is a good way to quickly capture the attention of readers. You can either compile questions that you've received since the last edition or you can summarize some generic questions that are frequently asked about your organization.

A listing of names and titles of managers in your organization is a good way to give your newsletter a personal touch. If your organization is small, you may want to list the names of all employees.

If you have any prices of standard products or services, you can include a listing of those here. You may want to refer your readers to any other forms of communication that you've created for your organization.

You can also use this space to remind readers to mark their calendars for a regular event, such as a breakfast meeting for vendors every third Tuesday of the month, or a biannual charity auction.

If space is available, this is a good place to insert a clip art image or some other graphic.

Caption describing picture or graphic.