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Multiplication Drill Facts: Tips, Tricks & Strategies Curriculum Map

Suggested for students from grades 2 to 5

Students find learning multiplication facts challenging so we developed this step-by-step approach to making things as easy as possible. We start with the easiest facts and build on prior knowledge to achieve the hardest facts to learn. The student-friendly worksheets are jam-packed with rhymes and other tricks and tips to help students remember what they've learned.

Fun activities for visual and musical learners are included with drills for practice.

Designed to be a complete overview of basic multiplication facts, from 0×0 through 12×12 and the beginnings of multi-digit multiplication. Students begin with skip counting; the patterns developed there are then revisited as repeated addition of numbers, which in turn leads to multiplication.

Students practice each times table individually, with various different methods of visualizing the multiplication process – using counting, area calculations, and grids to demonstrate the facts. Tables are not presented in numerical order; those tables that are easiest for students to remember are provided first, so that confidence in their ability to complete the exercises is increased.

In this way, much of the content of the later tables has already been learned, as students apply the associative property of multiplication. For instance, 7-times tables often give students more trouble; however, in this text, by the time the 7-times table is presented, students will already have been introduced to all but two facts from that table. The individual tables are followed by fun activities, which help make the facts more interesting and memorable for the students. Finally, drill practices reinforce the facts learned, and regular checkpoint pages provide a review of each section. A final checkpoint at the very end covers the gamut of topics covered, and a large blank grid form is included for student use.

RATIONALE

Multiplication is a fundamental skill in further mathematical study; anything beyond basic adding of sums requires a firm grasp of multiplication facts. Knowledge of the multiples and factors of numbers can make division, manipulation of fractions, trigonometry, algebra, and investment mathematics simpler to compute.

HOW TO USE THE WORKSHEETS

Begin at the beginning, and work through to the end! This is designed to complement and supplement classroom instruction in multiplication, or it can be used as a standalone tool. Additional practice may benefit students; several of the "fun pages" include mnemonics, songs, rhymes, and even games for the students to use to reinforce their memories.

ORGANIZATION

Organized into sections. First, students work with skip counting (that is, counting by 2's, 5's, etc.). Next, the multiplication process is formalized; students have a page of tables, some fun practice exercises, and drill questions for each times table. Finally, the distributive and associative properties are explored, and examples of 2-digit by 1-digit multiplication are introduced.

OVERALL LEARNING EXPECTATIONS

Students will skip count by numbers from 0 through 10 up to at least ten times the number, will learn and begin to memorize multiplication facts from 0×0 to 12×12 , and begin to perform 2-digit by 1-digit multiplication.

Teacher Notes Includes:

- At A Glance – Learning Expectations
- Teacher Evaluation Rubric
- Student Evaluation Rubric
- Introduction, Rationale, Organization of Book, and Overall Expectations
- Blank Multiplication Table

Skip Counting Worksheets

- 1, 2, 5, 10
- Checkpoint
- 4 and Even Numbers (6, 8, 10)
- 3 and Multiples (6, 9)
- Checkpoint

Multiplication – Single-Digit Facts Worksheets

- 1-Times
- 2-Times
- 5-Times
- 10-Times
- Checkpoint

Multiplication Facts 0,3,9,11 and 12 Worksheets

- 0-Times
- 3-Times
- 9-Times
- 11- and 12-Times
- Checkpoint

The Last 4 Times Tables 4,6,7,8 Square Numbers Worksheets

- The Last Ten Facts
- Square Numbers
- 4-Times.
- Checkpoint

Multiplication Facts 6,7 and 8 Worksheets

- 6-Times
- 7-Times
- 8-Times
- Checkpoint

Divide and Conquer Bigger Multiplication! Worksheets

- 2-Digit by 1-Digit Multiplication
- Teens-Times
- Multiples of 10
- Any 2-Digit Multiplier
- Checkpoint

Final Checkpoint

- 2 review worksheets

Name: _____

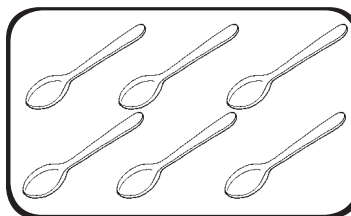
Count On It! - One Number At A Time



We're going to start learning about multiplication with something familiar: counting and skip counting.

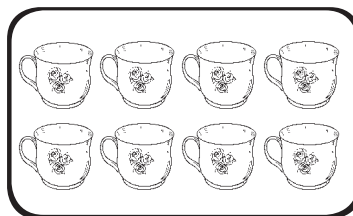
1. Count the spoons:

How many spoons? _____



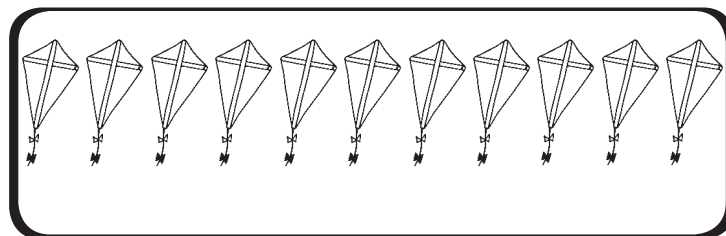
2. Count the cups:

How many cups? _____



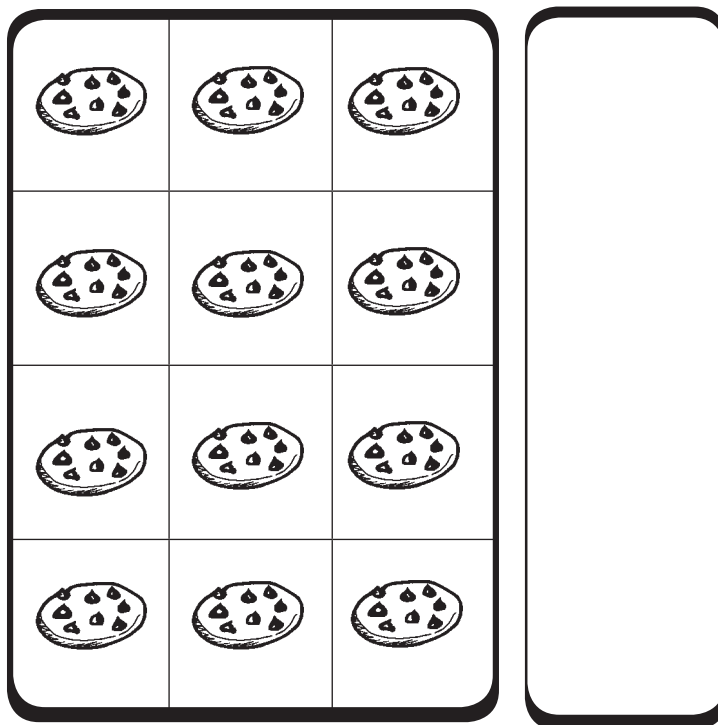
3. Count the kites.

How many kites? _____



4. We counted these things one by one, not skipping any. Each number we counted is exactly one more than the last number.

Suppose you have 12 boxes with one cookie in each.
How many cookies do you get when you take each cookie out one at a time and put it in a pile? Cross out each cookie to take it out of its box and draw it in a pile to find out.
Did you get 12 cookies in the pile? _____



+1 Skip Counting

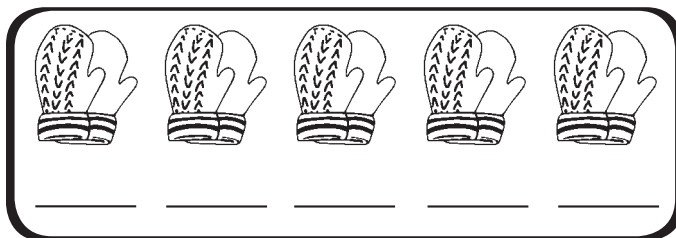
Name: _____

Count On It! - Pair It Up



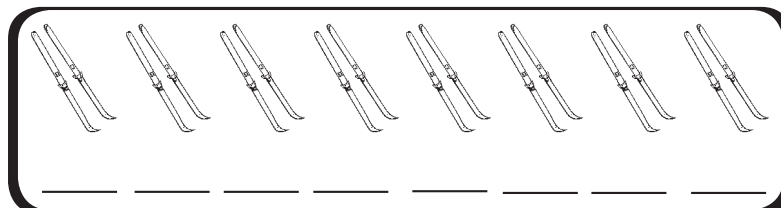
Sometimes we don't want to count every single one of something.
So what can we do? We can skip count instead!

1. How many mittens does Eric have?
Skip count by 2's to find out.
Use the lines under each pair to
keep count.



How many mitts all together?: _____

2. These sets of skis need to
have their bindings checked.



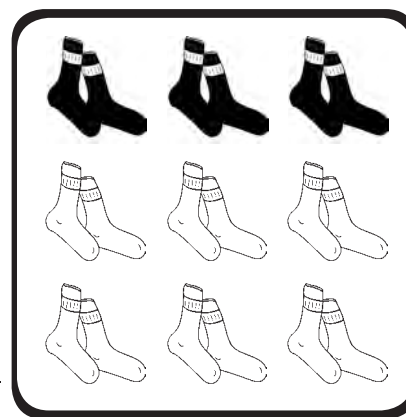
How many bindings does Han
need to check? _____

3. Fenton bought black socks and
Gemma bought white ones.

How many black socks are there? _____

How many white socks? _____

How many socks are there all together? _____



4. What kind of numbers do you use when you skip count by 2's? _____

What numbers are even numbers?

_____, _____, _____, _____, _____

+2 Skip Counting

Name: _____

Count On It! - Stars in My Pocket

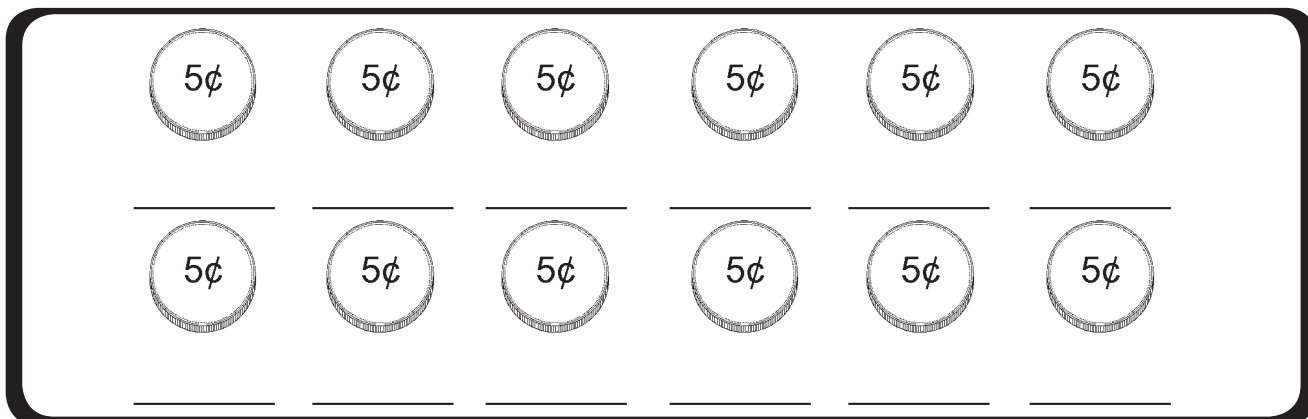


We can skip count by other numbers, too. Let's try skip counting by five's!

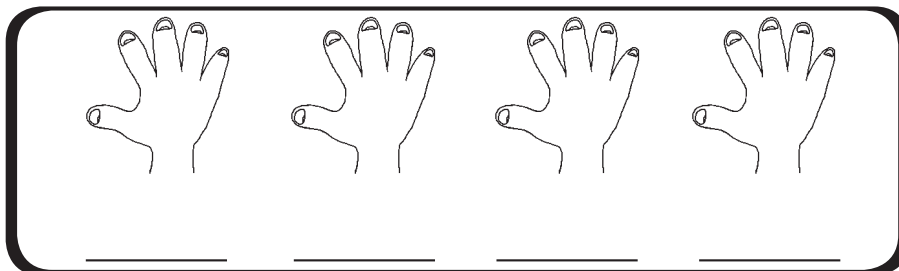
1. Jessica wants to put a light on each point of every star, but she doesn't know how many lights she needs. Each star has five points. Under each star, put the total number of lights needed.



2. Kyle has part of a roll of nickels. Help him count how many cents he has.



3. Louise and Mark have finger puppets. If they can put one on each finger, how many puppets can they hold? Skip count to find out!



+5 Skip Counting

Name: _____

Count On It! - Decimal System



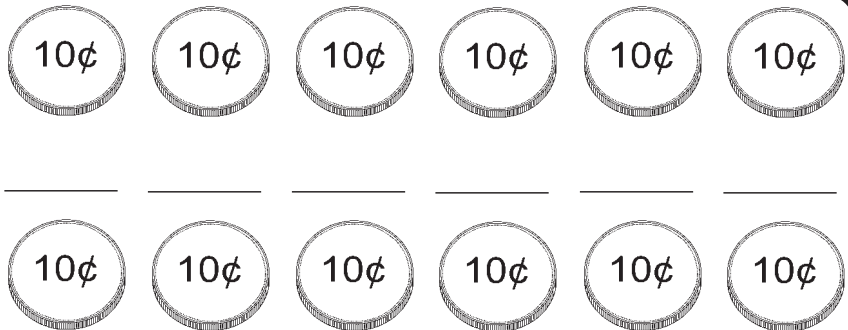
Sometimes we need to count bigger numbers, and it's useful to count by 10's. Let's practice!

1. Nadia has some strings of beads with 10 beads on each. Help her count her beads.



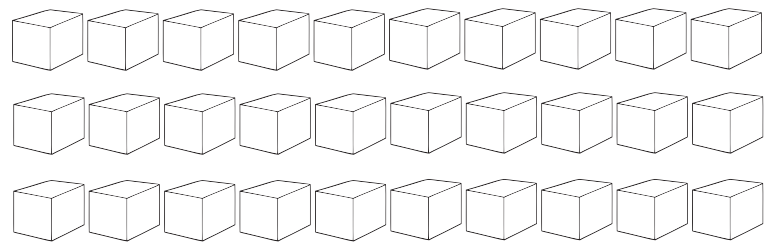
How many? _____

2. Omi has a bunch of dimes; help him count how many cents he has!



How much? _____

3. Pietro is putting the counting cubes away. He arranges them in the tray in lines that are 10 blocks long. Circle and count by groups of 10.



How many cubes all together? _____

How many full lines of cubes? _____

+10 Skip Counting

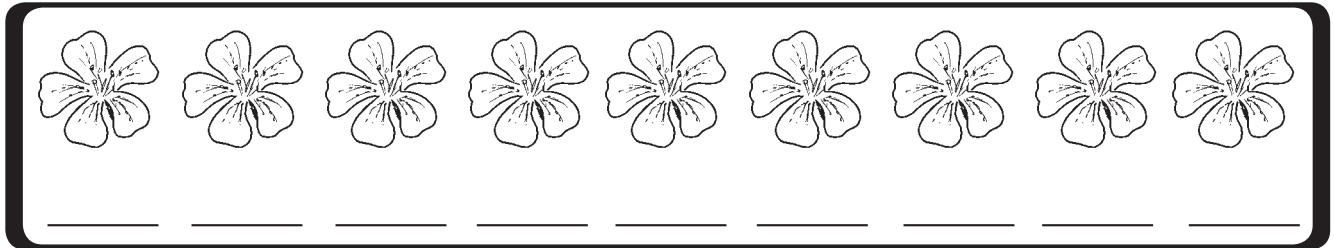
Name: _____

Mix it Up! - Skip Counting by 1, 2, 5, and 10

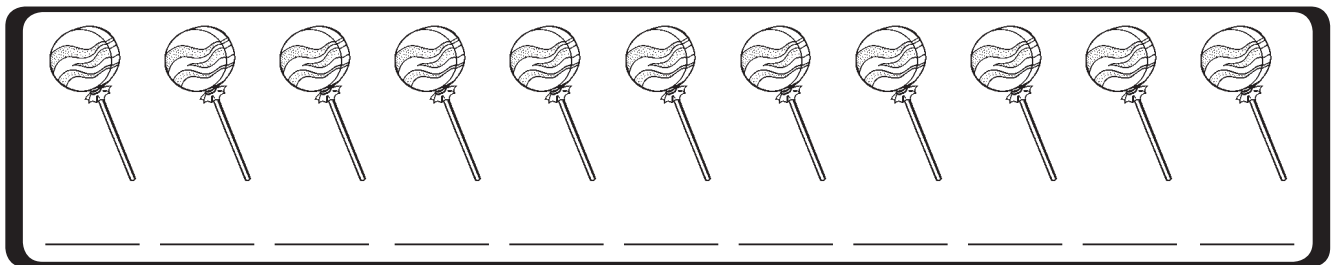


Skip count the following sets of images:

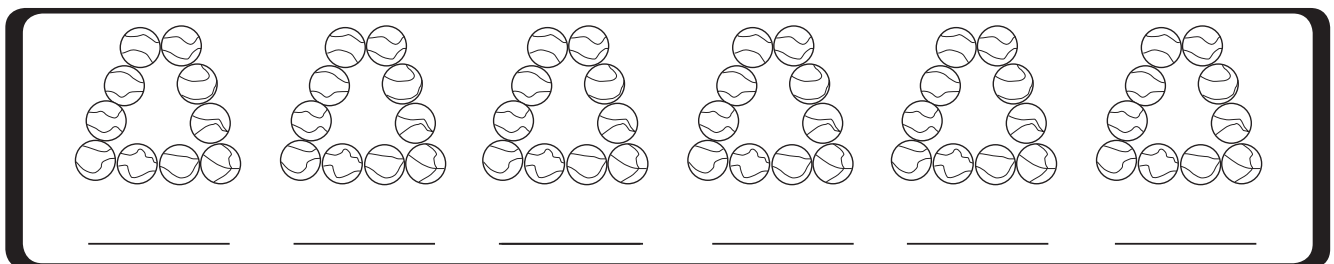
1. Skip count the flower petals (there are five in each flower).



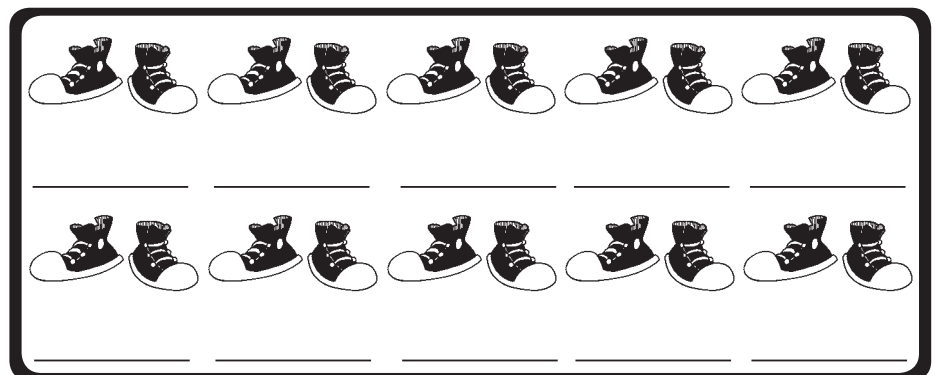
2. Count the lollipops.



3. Skip count the marbles (there are ten in each triangle).



4. Skip count the shoes.



Checkpoint 1,2,5,10

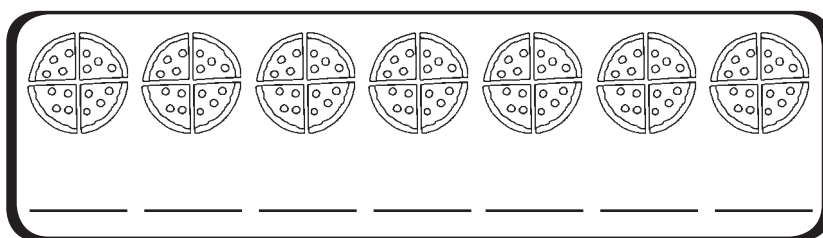
Name: _____

Count On It! - Four on the Floor



Four is twice two, which means that if you want to skip count by four's, it's just like skip counting by two's and skipping every other number. Use these examples to practice!

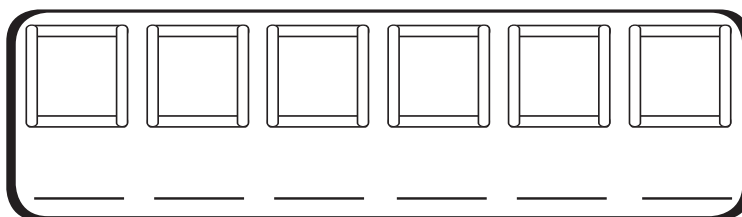
1. Quila brought mini-pizzas to share with her class. Each pizza is cut into four pieces. Skip count to find out how many pieces she has.



If there are 26 kids in the class, is there enough for everyone? _____

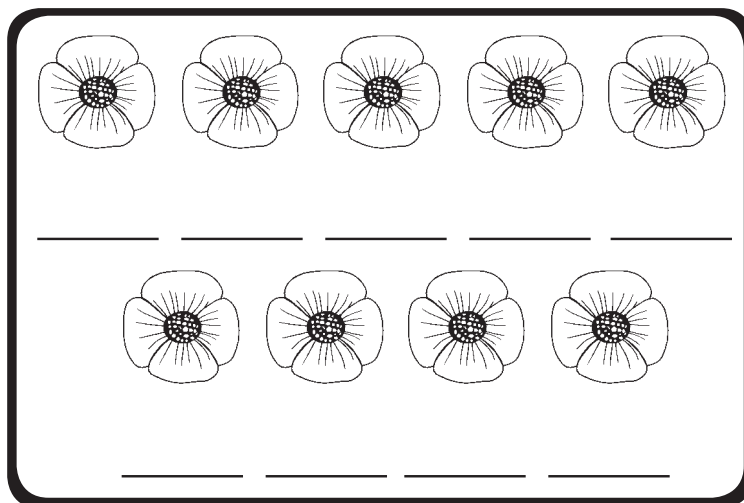
2. Remy is making picture frames from popsicle sticks.

How many sticks did Remy use? _____



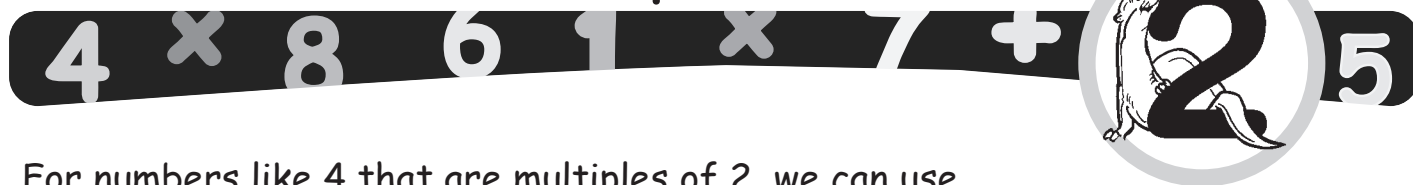
3. Suzume is making poppies out of crepe paper, and needs to cut out four petals for each.

How many petals does Suzume need to cut? _____



Name: _____

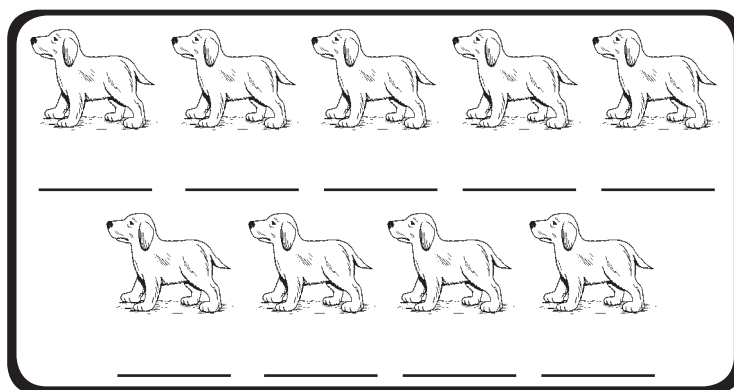
Count On It! - Double Up Doubles



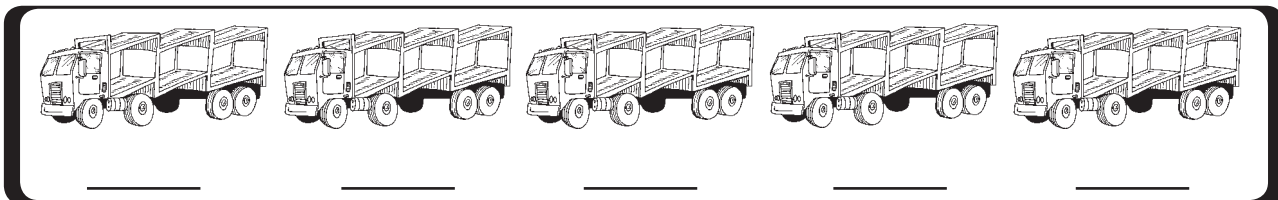
For numbers like 4 that are multiples of 2, we can use counting by 2's to help us. In each example below, use counting by pairs to work up to the number you're skip counting by, but only write down the full skip's worth.

1. These puppies need two pairs of socks each (for front and back feet!).

How many socks do they need all together? Count and see! _____



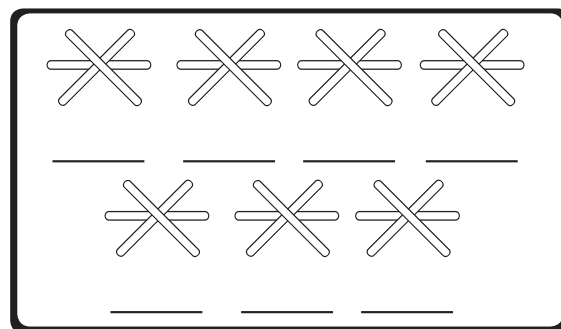
2. These trucks have 8 wheels each, four on each side.



How many tires will these trucks need if they all get new tires? _____

3. These "snowflakes" are made with three popsicle sticks each and need to have each point decorated with a sticker.

How many sparkly stickers are needed to finish the snowflakes? _____



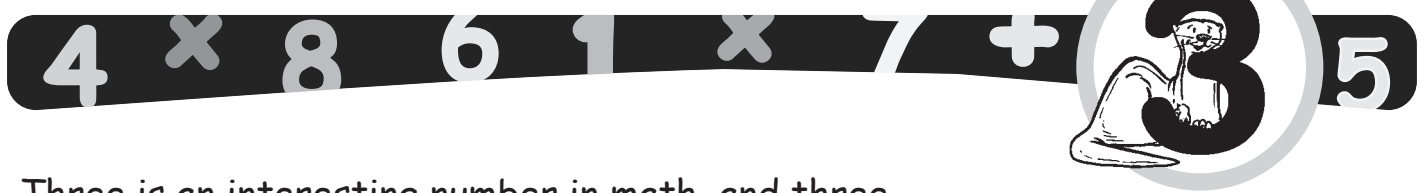
4. By how many 2's do you skip to count by 8's? _____

By how many 2's do you skip to count by 6's? _____

+2 Skip Counting

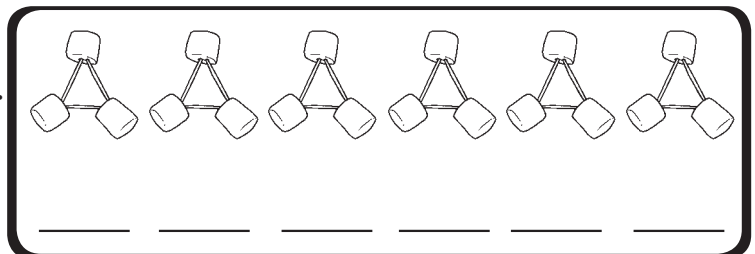
Name: _____

Count On It! - Trio Time



Three is an interesting number in math, and three shows up in all sorts of places. Being able to skip count by three is a good thing. Let's practice!

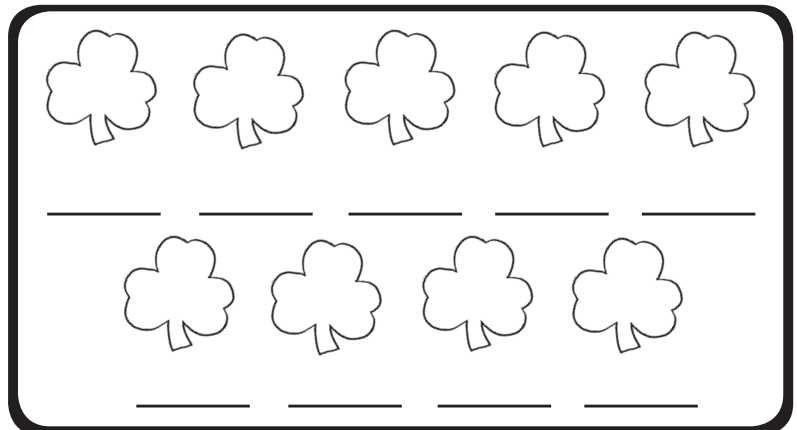
1. The triangle is a basic shape. Trevor is making triangles out of marshmallows and toothpicks. He needs six triangles. Help him count the marshmallows he needs.



How many marshmallows will Trevor need? _____

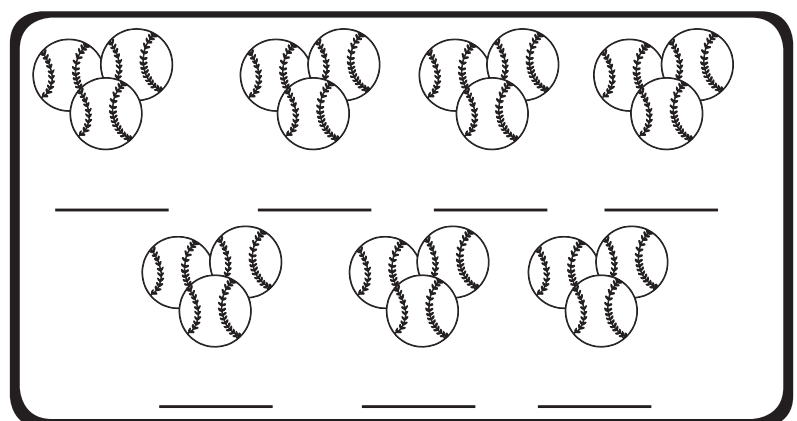
2. Things occur by three's in nature, too, like shamrock leaves.

How many leaves are there? _____



3. There are three outs per inning in baseball. If each ball represents an out for the Sox team.

How many Sox players are out at the end of the 7th? _____



+3 Skip Counting

Name: _____

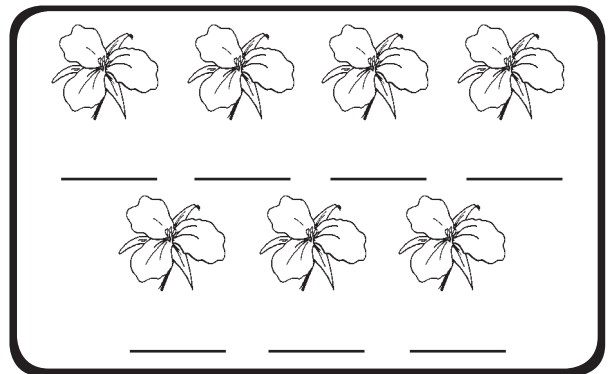
Count On It! - Triple the Fun



Sometimes we want to count things by multiples of three.
We can use skip counting by three to help.

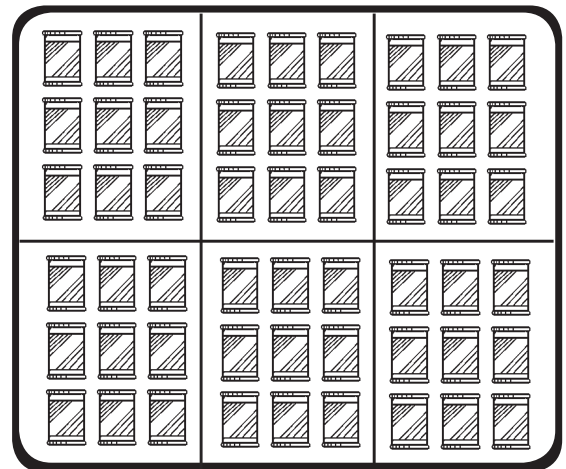
1. Many types of flowers have six petals, and they are often arranged in two sets of three.

How many petals are there all together? _____



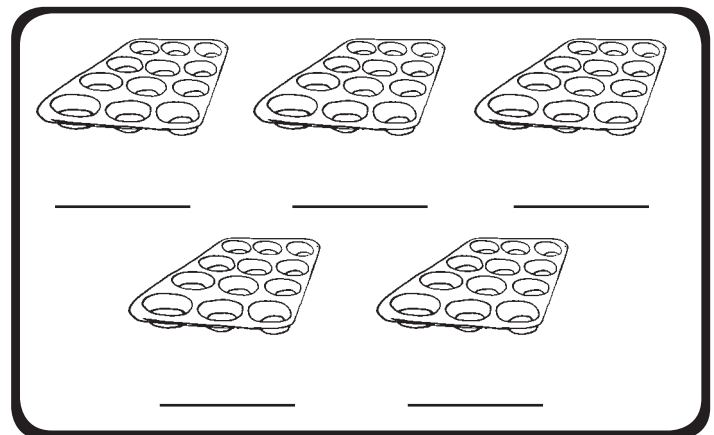
2. Ursula is putting away cans of soup; she can fit nine into each box, in rows of three.

How many cans of soup has she got?



3. Vi is baking muffins. Each pan has 12 spaces set in four rows of three.

How many muffins is Vi baking?



+3 Skip Counting

Name: _____

Check It Out! - Skip Ahead!



Fill in the spaces in each of the following lines. Skip count by the first number in the line, putting one number in each space.

1. 2, _____, _____, _____, _____, _____, _____, _____,
_____, _____, _____, _____, _____, _____, _____, 30

2. 3, _____, _____, _____, _____, _____, _____, _____,
_____, 30

3. 6, _____, _____, _____, _____, _____, 36

4. 9, _____, _____, _____, _____, _____, _____, _____, 72

5. 4, _____, _____, _____, _____, _____, _____, 28

6. 5, _____, _____, _____, _____, _____, _____, _____, 40

7. 10, _____, _____, _____, _____, _____, _____, _____, _____,
_____, 100

