

Primary Math Charts

A Teaching
and Learning
Bulletin Board!

teacher's
friend

Place Value

Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones
1	5	6	4	7	9	8

one million, five hundred sixty-four thousand, seven hundred ninety eight
Write your number here:

One Hundred Chart

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50

Fraction Equivalents

1		
$\frac{1}{2}$		$\frac{1}{2}$
$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$
$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$
$\frac{1}{5}$	$\frac{1}{5}$	$\frac{1}{5}$
$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$
$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$
$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$

Multiplication Table

x	1	2	3	4	5	6	7	8	9	10	11	12
1	1	2	3	4	5	6	7	8	9	10	11	12
2	2	4	6	8	10	12	14	16	18	20	22	24
3	3	6	9	12	15	18	21	24	27	30	33	36
4	4	8	12	16	20	24	28	32	36	40	44	48
5	5	10	15	20	25	30	35	40	45	50	55	60
6	6	12	18	24	30	36	42	48	54	60	66	72
7	7	14	21	28	35	42	49	56	63	70	77	84
8	8	16	24	32	40	48	56	64	72	80	88	96
9	9	18	27	36	45	54	63	72	81	90	99	108
10	10	20	30	40	50	60	70	80	90	100	110	120
11	11	22	33	44	55	66	77	88	99	110	121	132
12	12	24	36	48	60	72	84	96	108	120	132	144

Addition Table

+	1	2	3	4	5	6	7	8	9	10	11	12
1	2	3	4	5	6	7	8	9	10	11	12	13
2	3	4	5	6	7	8	9	10	11	12	13	14
3	4	5	6	7	8	9	10	11	12	13	14	15
4	5	6	7	8	9	10	11	12	13	14	15	16
5	6	7	8	9	10	11	12	13	14	15	16	17
6	7	8	9	10	11	12	13	14	15	16	17	18
7	8	9	10	11	12	13	14	15	16	17	18	19
8	9	10	11	12	13	14	15	16	17	18	19	20
9	10	11	12	13	14	15	16	17	18	19	20	21
10	11	12	13	14	15	16	17	18	19	20	21	22
11	12	13	14	15	16	17	18	19	20	21	22	23
12	13	14	15	16	17	18	19	20	21	22	23	24

Activity Guide

Displaying and Using Your Bulletin Board Set: Choose an eye-level bulletin board on which to display your “Primary Math Charts” bulletin board set. Use the display and the reproducible patterns in this resource guide to do the suggested activities. You might have students use the charts directly on the display or place them in learning centers. Use a wipe-off marker to write on the charts.

Place Value

Use the example on the chart to explain the concept of place value. As you read the number, point to each corresponding place value heading to demonstrate how children can use these as a guide. Record a number on the chart. Help children identify the place value of each digit and then read the whole number aloud. For additional practice, repeat with a variety of numbers. Then invite student pairs to use the chart to do the following:

- Write their own numbers on the chart and then read the numbers aloud to their partner.
- Fill in the blank row on the chart, name a place value, and have their partner place a marker on the number in that place.
- Take turns calling out a digit and its place value for their partner to write on the chart. When an agreed-upon number of boxes are filled, the pair can read the number aloud.

One Hundred Chart

Conduct a choral count from 1 to 100 (or up to any number of your choice) with children. As children count, point to each number on the chart. In addition to counting practice, use the chart to do these activities:

- Show children how to start with a specified number

and then count forward to add. Later, demonstrate how to count back on the chart to subtract.

- Point out the columns of odd and even numbers. Then call out random numbers and have children tell whether they are odd or even. For a silent activity, have children show their fist to indicate “odd” or extend their three middle fingers horizontally (to make a capital E) to indicate “even.”
- Lead children in oral skip-counting activities by pointing out the increments of a given number as they count. Explain the color patterns that children might use as a guide when doing independent skip-counting exercises for 2s, 5s, and 10s.
- Have children look for the pattern in each column. Point out that each number is ten more than the number above it. Later, to provide practice in adding 10, cover the chart and call out numbers at random. Ask children to mentally add 10 to each number and then share their answer.

Addition Table

Write an addition problem on the chalkboard using addends from 1 to 12. Demonstrate how to use the chart to find the sum of the two numbers. Repeat, having children find the sums of other basic addition facts on the chart. Then use the chart in the following

ways to reinforce other addition skills:

- Point out the numbers in the white boxes that form the diagonal. Have children find the two addends for each sum. Explain that each number is the sum of double addends—two addends that are identical. For a fun quick drill, call out sums from the line and see how quickly children can name the double addends.
- Cover a sum on the chart. Challenge children to use the surrounding numbers to determine the missing sum. Encourage them to describe any number patterns they discover.
- Cover the left row of addends. Then ask children to solve problems with missing addends. Have them find and verify their answers on the chart.
- Guide children to discover the commutative property of addition. Have them write the same addition equations in two different ways.

Multiplication Table

Show children how to find the products of basic multiplication facts on the chart. Afterward, try these activities with the chart:

- Point out the numbers in the white boxes that form the diagonal. Have children find the two factors that make each product. Explain that each number is the product of identical factors. Then randomly call out products from the line. Have children find and call out the identical factors. As they become more skillful, call out the products at a more rapid pace.
- Have children look for number patterns to share and discuss with the class. For example, some products can be found by skip counting by common increments: 2s, 3s, 5s, and 10s.
- Cover a product on the chart. Challenge children to use the numbers above and below the hidden number to determine the missing product.
- Cover the left row (or the top row) of numbers. Then have children solve problems with missing factors by finding and verifying their answers on the chart.
- Guide children to discover the commutative property

of multiplication. Ask them to write the same multiplication equations in two different ways.

Fraction Equivalents

To introduce fractions, point to the top section on the chart and explain that this red bar represents a whole. Then move down the chart one row at a time. Review the fractional parts of each bar, inviting children to describe their relationship to the whole bar at the top. Later, use the chart and these ideas to provide additional practice in fractions:

- Invite children to line up the edge of a yardstick along the vertical lines on the chart to find as many equivalent fractions as possible. Encourage them to share and explain their findings with the class.
- If desired, cut apart the different bars on the chart. Invite children to assemble each bar and compare its parts to the whole bar. Also, challenge them to use the pieces to compare individual fractional parts and to make equivalent fractions.
- Label three large index cards with the $<$, $>$, and $=$ signs. Have children use the sign cards and fractional parts to create fraction comparison sentences.

Using Reproducible Patterns

Extend children's learning with the patterns on pages 3 and 4.

- Give children individual practice in place value with copies of page 3. To use, call out numbers for children to record on the chart. Or have them fill in their own numbers to read to classmates. Children might also call out numbers for classmates to write and read.
- Use copies of page 4 to provide extra practice and reinforcement in working with fractions. Have children color each row of fractions (they might use the chart as a color key) and then cut apart the pieces. Encourage them to use the pieces to explore the relationships between fractional parts, equivalents, and wholes. If desired, have children put their pieces in a resealable plastic bag to take home.

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Place Value

Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones

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Fraction Equivalents

1

$\frac{1}{2}$

$\frac{1}{2}$

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