Mathematics Vocabulary Cards – Grade 4

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Number Line
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Identity Property: Addition and Multiplication
Commutative Property: Addition and Multiplication
Associative Property: Addition and Multiplication
## Place Value

<table>
<thead>
<tr>
<th>Millions</th>
<th>Hundred Thousands</th>
<th>Ten Thousands</th>
<th>Thousands</th>
<th>Hundreds</th>
<th>Tens</th>
<th>Ones</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,235,486</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Less than

<

2 < 7

\[
\frac{3}{8} < \frac{6}{10}
\]
Greater than

$8 > 4$

$\frac{5}{8} > \frac{2}{5}$
Equal to

\[
\begin{align*}
4 &= 4 \\
\frac{6}{9} &= \frac{2}{3}
\end{align*}
\]
Mixed Number

\[ 1 \frac{6}{10} \]
Equivalent Fractions

\[
\frac{4}{8} = \frac{1}{2}
\]
Fraction

\[
\frac{1}{2} \quad \frac{1}{4}
\]

\[
0 \quad \frac{1}{2} \quad 1
\]

\[
0 \quad \frac{1}{4} \quad \frac{1}{2} \quad 1
\]
Fraction

\[\frac{2}{3}\]

\[\frac{1}{3}, \frac{1}{2}, \frac{2}{3}\]

0 \[\frac{1}{3}\] \[\frac{1}{2}\] \[\frac{2}{3}\] 1
Fraction

\[
\frac{3}{8}
\]

\[
\begin{array}{ccc}
\frac{1}{8} & \frac{2}{8} & \frac{3}{8} \\
\frac{1}{2} & \frac{5}{8} & 1
\end{array}
\]
Fraction Addition

\[
\frac{3}{8} + \frac{4}{8} = \frac{7}{8}
\]
Fraction Subtraction

\[\frac{4}{8} - \frac{3}{8} = \frac{1}{8}\]
Decimal Place Value

<table>
<thead>
<tr>
<th>Ones</th>
<th>Tenths</th>
<th>Hundredths</th>
<th>Thousandths</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>. 7</td>
<td>2</td>
<td>1</td>
</tr>
</tbody>
</table>

decimal point
Addition

465 + 124 = 589

sum

plus
Subtraction

465 − 124 = 341

difference

minus
Multiply

32 x 48 = 1536

product
Divide

\[ \frac{20}{14} \]

\[
\begin{array}{c}
280 \\
\hline
14 \\
\hline
20
\end{array}
\]

280 ÷ 14 = 20

\[ \text{dividend} \div \text{divisor} = \text{quotient} \]
Multiplication

5 x 3 = 15

factors

3 x 5 = 15
Multiplication

4 x 3

4 x 3 = 12
Division

15 ÷ 3 = 5

15 ÷ 3 = 5

15 ÷ 5 = 3
Factor

Factors of 12

1, 2, 3, 4, 6, 12

1 x 12

2 x 6

3 x 4
Balance Scale

weight/mass
Scale

weight/mass
Ounce
Pound

weight/mass

16 ounces = 1 pound
Ton

2,000 pounds
Gram

1,000 grams = 1 kilogram
Kilogram

weight/mass

1,000 grams = 1 kilogram
Ruler

one centimeter

0 cm 1 2 3

0 in. 1

one inch
Millimeter

10 millimeters = 1 centimeter
Inches, Feet, and Yards

1 foot = 12 inches
36 inches = 3 feet
3 feet = 1 yard
Meter

1 meter = 100 centimeters
1 meter = 1,000 millimeters
Mile

1,760 yards
Cup

8 ounces
Pint

cup + cup = pint

2 cups
16 ounces
Quart

2 pints
4 cups
32 ounces
Gallon

128 ounces
Liter

2 liters

1 liter
Point
Line

A

B
Ray

endpoint
Line Segment

endpoint
Angle
Endpoint
Vertex

vertex

vertices
Intersecting Lines
Parallel Lines
Perpendicular Lines
Rotation

congruent figures
Reflection

congruent figures
Translation

congruent figures
Polygons

Triangle

Quadrilateral

Pentagon
Polygons

Hexagon

Heptagon

Octagon
Polygons

Nonagon

Decagon
Quadrilaterals

rhombus

parallelogram

rectangle

square

trapezoid
Rectangle

right angle
Square

right angle
Triangle

side

vertex

right triangle
Sphere
Cube

face vertex edge
Rectangular Prism

vertices
Square Pyramid
Cylinder
Cone
Probability
Number Line

0 \quad \frac{1}{2} \quad 1
Certain

is certain
Likely

is likely
Unlikely

is unlikely
Equally likely

and  are equally likely
Impossible

is impossible
Bar Graph

Our Favorite Ice Cream

<table>
<thead>
<tr>
<th>Kinds of Ice Cream</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chocolate</td>
<td>8</td>
</tr>
<tr>
<td>Vanilla</td>
<td>2</td>
</tr>
<tr>
<td>Strawberry</td>
<td>3</td>
</tr>
<tr>
<td>Chocolate Chip</td>
<td>7</td>
</tr>
<tr>
<td>Cookie Dough</td>
<td>6</td>
</tr>
</tbody>
</table>
Line Plot

Number of Pets

X represents 1 student

X X
X X X X X

1 2 3 4 5
Line Graph

Temperature Over Time

Temperature (°F)

Time

9a.m. 10a.m. 11a.m. 12p.m. 1p.m.
Number Line

0 1 2 3 4 5 6 7 8
Equality

13 + 25 = 30 + 8
Identity Property

Addition:
8 + 0 = 8
0 + 12 = 12

Multiplication:
5 \times 1 = 5
1 \times 22 = 22
Commutative Property

Addition:
12 + 5 = 17
5 + 12 = 17

Multiplication:
12 x 9 = 108
9 x 12 = 108
Associative Property

Addition:
\[(2 + 5) + 4 = 2 + (5 + 4)\]

Multiplication:
\[(3 \times 2) \times 4 = 3 \times (2 \times 4)\]