## addend

## addend

## $33+4.7+0.9=38.6$ <br> addends

## addend <br>  <br> Any number being <br> added. <br> addends

## algorithm

## Partial Product Example

## algorithm <br> 555 <br> $\begin{array}{r}\mathrm{x} 7 \\ \hline 35\end{array}$ <br> 350 <br> 3500 Step 3: Multiply the hundreds. <br> 3885 Step 4: Add the partial products.

Partial Product Example

## algorithm <br> 555 <br> $\begin{array}{r}\mathrm{x} 7 \\ \hline 35\end{array}$ <br> Step 1: Multiply the ones. <br> Step 2: Multiply the tens. <br> 3500 Step 3: Multiply the hundreds. <br> 3885 Step 4: Add the partial products.

Step-by-step method for computing.

## area

## $\mathbf{2}$ rows of $5=10$ square units <br> or

area


## 2 rows of $5=10$ square units or

$2 \times 5=10$ square units

## area

The measure, in square units, of the interior region of a 2 dimensional figure or the surface of a
3-dimensional figure.

## area model

## $20+8$ <br> area model <br> 

$9 \times 28=(9 \times 20)+(9 \times 8)=252$

A model of multiplication that shows each place value product

## array

## array

3 rows of 4 or
$3 \times 4$


## array

$\begin{array}{cc}3 \text { rows of } 4 & 0 \\ \text { or } & 0 \\ 3 \times 4 & 0\end{array}$

An arrangement of objects in equal rows.

## Associative Property of

## Addition

## Associative Property of Addition

$$
\begin{aligned}
(5+7)+3 & =5+(7+3) \\
12+3 & =5+10 \\
15 & =15
\end{aligned}
$$

Associative Property of Addition

$$
\begin{aligned}
(5+7)+3 & =5+(7+3) \\
12+3 & =5+10 \\
15 & =15
\end{aligned}
$$

The sum stays the same when the grouping of addends is changed.
$(a+b)+c=a+(b+c)$, where $a, b$, and $c$ stand for any real numbers.

## Associative Property of

 MultiplicationAssociative<br>Property of<br>Multiplication

$$
\begin{aligned}
(5 \times 7) \times 3 & =5 \times(7 \times 3) \\
35 \times 3 & =5 \times 21 \\
105 & =105
\end{aligned}
$$

Associative Property of Multiplication

$$
\begin{aligned}
(5 \times 7) \times 3 & =5 \times(7 \times 3) \\
35 \times 3 & =5 \times 21 \\
105 & =105
\end{aligned}
$$

The product stays the same when the grouping of factors is changed. ( $a$ $\mathrm{x} b) \times c=a \times(b \times c)$, where $a, \mathrm{~b}$, and c stand for any real numbers.

## attribute

## attribute

## large

## pink

A characteristic.<br>e.g. size, shape or color

## axis

# axis 



## axis

A reference line from
which distances or angles are measured in a coordinate grid.
(plural - axes)

## base of an exponent

## base of an exponent



base of an exponent

The number that is raised to a power. In $10^{4}, 10$ is the base and 4 is the exponent. 10 is raised to the power of 4. $\left(10^{4}=10 \times 10 \times\right.$ $10 \times 10=10,000)$

## base of a solid figure

## base of a solid figure



# base of a solid figure 

A base of a solid figure is usually thought of as a face upon which it can "sit." Most solid figures have more than one base.

## benchmark fractions

## benchmark <br> 1 <br> 1 <br> 2 3 fractions <br> 

benchmark fractions $\quad \overline{4} \quad \overline{3} \quad \overline{2} \quad \overline{3} \frac{-}{4}$

Fractions that are commonly used for estimation.

## braces

## braces <br> 

Braces can be used to indicate that the objects written between them belong to a set.

## brackets

## brackets <br> $[(2 \times 20)+6]$

A type of grouping
brackets [(2 x 20) + 6] symbol used in pairs that tells what operation to complete first.

## centimeter (cm)

## centimeter

 (cm)

## centimeter

 (cm)

A metric unit of length equal to 0.01 of a meter.

# Commutative Property <br> <br> of Addition 

 <br> <br> of Addition}

## Commutative

 Property of $\quad 5+3=3+5$ Addition
## Commutative

Property of $5+3=3+5$

The sum stays the same when the order of the addends is changed. $a+b=b+a$, where $a$ and $b$ are any real numbers.

## Commutative Property

## of Multiplication

Commutative Property of Multiplication



Commutative Property of Multiplication


$$
4 \times 7=7 \times 4
$$

The product stays the same when the order of the factors is changed. $a \times b=b \times a$, where $a$ and $b$ are any real numbers.

## compose

## compose



2 triangles can form a rectangle

## compose



To put together, as in numbers or shapes.

## coordinate plane

# coordinate plane 


coordinate plane


A 2-dimensional system in which the coordinates of a point are its distances from two intersecting, usually perpendicular, straight lines called axes. (Also called coordinate grid or coordinate system.)

## coordinate system

## coordinate




## coordinate

 systemAlso known as a coordinate grid. A
2-dimensional system in which the coordinates of a point are its distances from two intersecting, usually perpendicular, straight lines called axes.

## coordinates

# coordinates 


$(3,2)$
$(x, y)$

## coordinates


$(3,2)$
( $x, y$ )

An ordered pair of numbers that identify a point on a coordinate plane.

## corresponding terms

## corresponding terms

| 8 | $1^{\text {st }}$ Term | $2^{\text {nd }}$ Term | $3^{\text {rd }}$ Term | $4^{\text {th }}$ Term |
| :---: | :---: | :---: | :---: | :---: |
| Add 3 | 3 | 6 | (9) | 12 |
| Add 6 | 6 | 12 | 18 | 24 |

corresponding terms

Terms that are in the
same position in a sequence of numbers.

In the pattern shown, 9 and 18 are the 3rd terms in each sequence-they are corresponding terms.

## cubic unit

## cubic unit




A unit such as a cubic meter to measure volume or capacity.

## customary system

## customary system

## customary

 systemA system of
measurement used in the U.S. The system includes units for measuring length, capacity, and weight.

## data

## data

| Number of School Carnival <br> Tickets Sold |  |
| :---: | :---: |
| Kindergarten | 22 |
| $1^{\text {st }}$ Grade | 15 |
| $2^{\text {nd }}$ Grade | 34 |
| $3^{\text {rd }}$ Grade | 9 |
| $4^{\text {th }}$ Grade | 16 |
| $5^{\text {th }}$ Grade | 29 |
| $6^{\text {th }}$ Grade | 11 |

data

| Number of School Carnival <br> Tickets Sold |  |
| :---: | :---: |
| Kindergarten |  |
| $1^{\text {st }}$ Grade | 22 |
| $2^{\text {nd }}$ Grade | 15 |
| $3^{\text {rd }}$ Grade | 34 |
| $4^{\text {th }}$ Grade | 9 |
| $5^{\text {th }}$ Grade | 16 |
| $6^{\text {th }}$ Grade | 29 |

Information, especially numerical information.
Usually organized for analysis.

## decimal

## decimal

## $\$ 29.4553 .0$ 0.02

A number with one or more digits to the right of a decimal point. Decimal is used as another name for decimal fraction.

## decimal point

## decimal $\begin{array}{cc}\$ 1.55 & 3.2 \\ \text { decimal points }\end{array}$

## decimal <br> \$1.55 <br> decimal points <br> 

A dot separating the whole number from the
fraction in decimal notation.

## decompose

## decompose


decompose


To separate into components or basic elements.

## denominator

## denominator



## denominator



The quantity below the line in a fraction. It tells the number of equal parts into which a whole is divided.

## difference

## difference <br> $49.75-13.9=35.85$ <br> difference

## difference

$49.75-13.9=35.85$

difference

The amount that remains after one quantity is subtracted from another.

## Distributive Property

## Distributive

 Property
$6 \times 14=6 \times(10+4) *$ Break up the 14 into $10+4$


## Distributive Property



When one of the factors of a product is a sum, multiplying each addend before adding does not change the product.

## dividend

## dividend

## $8 \longdiv { 5 7 8 }$ <br> 1 dividend

## dividend

A quantity to be divided.

## divisor

# divisor 

The quantity by which another quantity is to be divided.

## equation

## equation



These expressions balance the scale because they are equal.


A statement that two mathematical expressions are equal.

## equivalent fraction

equivalent fraction


Fractions that have the same value.

## estimate

## Close to 1 <br> Close to 1 <br> estimate <br> $\downarrow$ <br> 3 <br> 



A number close to an exact amount, an estimate tells about how much.

## evaluate

## evaluate

$$
\begin{gathered}
42-13=n \\
n=29
\end{gathered}
$$

## $42-13=n$

evaluate

To find the value of a mathematical expression.

## expanded form

## expanded form

$347.392=$<br>$3 \times 100+4 \times 10+7 \times 1+$ $3 \times(1 / 10)+9 \times(1 / 100)+$ $2 \times(1 / 1000)$

## expanded form

```
\(347.392=\) \(3 \times 100+4 \times 10+7 \times 1+\) \(3 \times(1 / 10)+9 \times(1 / 100)+\) \(2 \times(1 / 1000)\)
```

A way to write numbers that shows the place value of each digit.

## exponent

## exponent


$10 \times 10 \times 10 \times 10=10,000$

## exponent



The number that tells the number of times the base is multiplied by itself.

## expression

## expression


no equal sign.

## $\operatorname{expression} \quad x+3$ <br> no equal sign.

A variable or combination of variables, numbers, and symbols that represents a mathematical relationship.

## factor

## factor <br> $2 \times 6=12$ <br> V <br> factors

factor
$2 \times 6=12$
$\uparrow$
An integer that divides
evenly into another.
factors

# finite decimal 

## finite

## decimal

Example:

finite
decimal

Example:


A decimal that contains a terminating number of digits. (Also called a terminating decimal.)

## formula

## formula




A general equation or rule. You can use a formula to find volume in a rectangular prism.

## greater than

# greater than 


$5>3$
greater than


Greater than is used to compare two numbers when the first number is larger than the second number.

## hundredth

## hundredth




One of 100 equal parts of a whole.

## hundredths

## hundredths



## 



In the decimal numeration system, hundredths is the name of the next place to the right of tenths.

## improper fraction

## improper fraction <br>  <br> Greater than <br> (or equal to) denominator

# improper fraction 


$\longleftarrow \quad$ Greater than (or equal to) denominator

A fraction where the numerator is greater than or equal to the denominator.

## inequality

## inequality



These expressions do not balance the scale because they are not equal.

## ตคค



These expressions do not balance the scale because they are not equal.

A mathematical sentence that compares two unequal expressions using one of the symbols $<,>$, or $\neq$. e.g. $26>13$; $13<26 ; 2+4<6+3$

## intersect

## intersect

## intersect



To meet or cross.

## less than

## less than


$3<5$


Less than is used to compare two numbers when the first number is smaller than the second number.

## like denominators

$$
\begin{array}{cccc}
\text { like } & \frac{3}{8} & \frac{7}{8} & \frac{7}{8} \\
\text { denominators } & \frac{1}{8}
\end{array}
$$

like denominators


Denominators in two or more fractions that are the same.

## line plot

## line plot


line plot


A diagram showing frequency of data on a number line.

## long division

## long <br> $\underset{\frac{-69}{73}}{\substack{332 \\ 7636 \\ 0}}$ <br> division <br> $\begin{array}{r}-69 \\ -46 \\ -46 \\ \hline 0\end{array}$

##  <br> $-69$ <br> $\frac{-46}{0}$

A standard procedure suitable for dividing simple or complex multidigit numbers.

## lowest terms

## lowest terms

$\square$ 4
8

$\frac{4}{8}$ in lowest terms is $\frac{1}{2}$

## lowest terms

$\square$
 1
2
$\frac{4}{8}$ in lowest terms is $\frac{1}{2}$

A fraction where the numerator and denominator have no common factor greater than 1.

