### addend

### addend

33 + 4.7 + 0.9 = 38.6addends

addend

33 + 4.7 + 0.9 = 38.6

Any number being added.

addends

# algorithm

#### **Partial Product Example**

# algorithm

555		
<u>x 7</u>		
35	Step 1:	Multiply the ones.
350	Step 2:	Multiply the tens.
<u>3500</u>	Step 3:	Multiply the hundreds.
3885	Step 4:	Add the partial products.

#### **Partial Product Example**

### algorithm

555		
<u>x 7</u>		
35	Step 1:	Multiply the ones.
350	Step 2:	Multiply the tens.
<u>3500</u>	Step 3:	Multiply the hundreds.
3885	Step 4:	Add the partial products.

Step-by-step method for computing.

### area

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



2 rows of 5 = 10 square units or 2 x 5 = 10 square units

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

area

#### area

# area model

9 x 28 = (9 x 20) + (9 x 8) = 252

A model of multiplication that shows each place value product

#### area model

9 x 28 = (9 x 20) + (9 x 8) = 252

### array



array



### Associative Property of Addition

#### Associative Property of Addition

#### (5+7) + 3 = 5 + (7+3)12 + 3 = 5 + 1015 = 15

#### Associative Property of Addition

(5+7) + 3 = 5 + (7+3)12 + 3 = 5 + 1015 = 15 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 Multiplication**

#### Associative Property of Multiplication

(5 x 7) x 3 = 5 x (7 x 3)35 x 3 = 5 x 21105 = 105

Associative Property of Multiplication

(5 x 7) x 3 = 5 x (7 x 3) 35 x 3 = 5 x 21105 = 105 The product stays the same when the grouping of factors is changed. (ax b) x c = a x (b x c), where a, b, and c stand for any real numbers.

### attribute



### 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.  $(10^4 = 10 \times 10 \times 10 \times 10 \times 10 = 10,000)$ 

# 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 fractions

benchmark 1 1 2 3fractions 4 3 2 3 4

Fractions that are commonly used for estimation.

### braces







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

### brackets

### brackets

 $[(2 \times 20) + 6]$ 

**brackets** [(2 x 20) + 6]

A type of grouping symbol used in pairs that tells what operation to complete first.

# centimeter (cm)

### centimeter (cm)







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

### Commutative Property of Addition

#### Commutative Property of Addition

5 + 3 = 3 + 5

#### Commutative Property of Addition

```
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**

 $4 \times 7 = 7 \times 4$ 

Commutative Property of Multiplication



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

### compose





2 triangles can form a rectangle

#### compose



2 triangles can form a rectangle

To put together, as in numbers or shapes.

# coordinate plane

### coordinate plane

coordinate plane





coordinate *grid* or coordinate *system*.)

# coordinate system

# coordinate

system

coordinate system





Also 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





#### coordinates



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

## corresponding terms

### corresponding terms

	l <sup>st</sup> Term	2 <sup>nd</sup> Term	3 <sup>rd</sup> Term	4 <sup>th</sup> Term
Add 3	3	6	9	12
Add 6	6	12	18	24

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.

#### corresponding terms

	l <sup>st</sup> Term	2 <sup>nd</sup> Term	3 <sup>rd</sup> Term	4 <sup>th</sup> Term
Add 3	3	6	9	12
Add 6	6	12	18	24

# cubic unit

### cubic unit



#### cubic unit



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

# customary system

### customary system



customary system



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

### data

Number of School Carnival Tickets Sold			
Kindergarten	22		
1 <sup>st</sup> Grade	15		
2 <sup>nd</sup> Grade	34		
3 <sup>rd</sup> Grade	9		
4 <sup>th</sup> Grade	16		
5 <sup>th</sup> Grade	29		
6 <sup>th</sup> Grade	11		

### data

#### data

Number of Tic	School Carnival kets Sold
Kindergarten	22
1 <sup>st</sup> Grade	15
2 <sup>nd</sup> Grade	34
3 <sup>rd</sup> Grade	9
4 <sup>th</sup> Grade	16
5 <sup>th</sup> Grade	29
6 <sup>th</sup> Grade	11

Information, especially numerical information. Usually organized for analysis.

# decimal

### decimal

### \$29.45 53.0 0.02

### decimal

\$29.45 53.0 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 point

#### \$1.55 3.2 † † decimal points

decimal point

\$1.55 3.2 † † decimal points

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

# 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

49.75 - 13.9 = 35.85difference

difference

49.75 - 13.9 = 35.85

after one quantity is subtracted from another.

The amount that remains

# **Distributive Property**

### Distributive Property

	10	4	_
6	60	24	60 <u>+ 24</u> 84
6>	x 14 = 6 x (10 + 4) *Brea	ak up the 1	14 into 10 + 4
	6 x (10 + 4)		
	(6 x 10) + (6 x 4)		
	60 + 24 =	84	

Distributive Property



6 x 14 = 6 x (10 + 4) \*Break up the 14 into 10 + 4

 $6 \times (10 + 4)$ (6 × 10) + (6 × 4) 60 + 24 = When one of the factors of a product is a sum, multiplying each addend before adding does not change the product.

# dividend

### dividend



### dividend

8 578

dividend

A quantity to be divided.

# divisor

### divisor



divisor



The quantity by which another quantity is to be divided.

# equation





equation



A statement that two mathematical expressions are equal.

# equivalent fraction

### equivalent fraction



equivalent fraction







Fractions that have the same value.

### estimate



### estimate

### estimate



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

### evaluate

### evaluate

42 - 13 = n

*n* = 29

42 - 13 = n

To find the value of a mathematical expression.

evaluate

n = 29

# expanded form

### expanded form

**347.392 =** 3 × 100 + 4 × 10 + 7 × 1 + 3 × (1/10) + 9 × (1/100) + 2 × (1/1000)

expanded form

347.392 =

3 × 100 + 4 × 10 + 7 × 1 + 3 × (1/10) + 9 × (1/100) + 2 × (1/1000) A way to write numbers that shows the place value of each digit.

# exponent





 $10 \ge 10 \ge 10 \ge 10,000$ 

### exponent



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

 $10 \ge 10 \ge 10 \ge 10,000$ 

# expression

# expression

x + 3

no equal sign.

expression

x + 3

no equal sign.

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

### factor





factor



An integer that divides evenly into another.

# finite decimal

### finite decimal

**Example:** 

0.25

finite decimal

**Example:** 

0.25

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



# hundredth

### hundredth



### hundredth



One of 100 equal parts of a whole.

# hundredths

### hundredths



#### hundredths



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

# improper fraction

### improper fraction

Greater than (or equal to) denominator

### improper fraction

7 5

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.

### inequality



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



To meet or cross.

# less than



### less than



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

# like denominators

# like357denominators888

#### 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.

Number of Pets

# long division

### long division

 $\begin{array}{r}
 332 \times 0 \\
 37636 \\
 -69 \\
 73 \\
 -69 \\
 46 \\
 -46 \\
 0
\end{array}$ 

long division  $\begin{array}{r}
 332 \\
 \hline
 23 \\
 \hline
 7636 \\
 \underline{-69} \\
 73 \\
 \underline{-69} \\
 46 \\
 \underline{-46} \\
 0
\end{array}$ 

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

# lowest terms





#### lowest terms



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

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