Algebra Readiness Builders

Fifth Grade Math

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Fifth Grade Builder # 1

Name: _____

Computation: Add and Subtract Whole Numbers

$$\begin{array}{r} 322 \\ +\ 145 \\ \hline \end{array}$$

$$\begin{array}{r} 174 \\ -\ 15 \\ \hline \end{array}$$

Computation: Multiply and Divide Whole Numbers

$$\begin{array}{r} 136 \\ \times\ 4 \\ \hline \end{array}$$

$4\overline{)248}$

Place Value: Whole Numbers

Identify the place value of the underlined digits.

6,782,345
2000 Thousands

1356,928 _____

560,256,980 _____

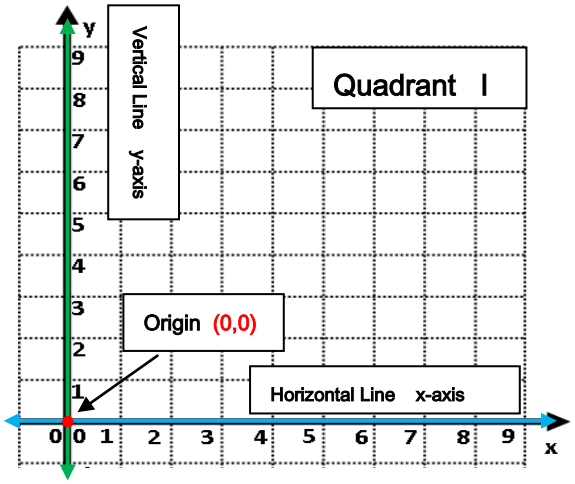
In order to identify the place value of the digit underlined, rewrite the underlined digit below and fill in the rest with zeros!

Fractions: Add and Subtract with LIKE Denominators

$$\begin{array}{r} \frac{4}{8} \\ \frac{3}{8} \\ \hline \end{array}$$

$$\begin{array}{r} \frac{3}{4} \\ -\ \frac{2}{4} \\ \hline \end{array}$$

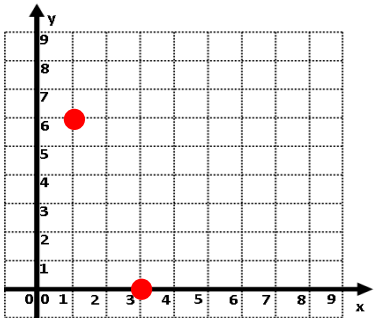
Coordinate Plane: Identify Attributes



Graphing Ordered Pairs

Ordered pairs are points on a coordinate plane. These points are given with an x-coordinate, and a y-coordinate. (x,y)

In order to graph ordered pairs we **ALWAYS** start at the origin or, (0,0). We **FIRST** move on the horizontal line (x-axis) left or right, **THEN** we move on the vertical line (y-axis) up or down.



First Move	Second Move
x ↔	y ↕
3	0
1	6
6	5
5	8
4	9
9	0

Order of Operations

Great Educators Make Doing Algebra Simple!

Grouping Symbols **E**xponent **M**ultiply-**D**ivide (left to right) first then **A**dd-**S**ubtract(left to right)

9 – 7 + 5	20 – 4 ÷ 2	6 + 6 ÷ 6	8 + 10 – 3
2 + 5	20 – 2	6 + ____	____ – 3
7	18	____	____

Vocabulary

Coordinate plane
Origin
x-axis
y-axis
x-coordinate
y-coordinate

_____ The vertical axis in a coordinate plane.

_____ The intersection of the vertical and horizontal lines in a coordinate plane. (0,0)

_____ The horizontal axis in a coordinate plane.

_____ The first number in an ordered pair. (x,y)

_____ The second number in an ordered pair. (x,y)

_____ A plane formed by the intersection of a horizontal number line with a vertical number line.

Fifth Grade Builder # 2

Name: _____

Computation: Add and Subtract Whole Numbers

$$\begin{array}{r} 362 \\ +\ 14 \\ \hline \end{array}$$

$$\begin{array}{r} 1{,}704 \\ -\ 15 \\ \hline \end{array}$$

Computation: Multiply and Divide Whole Numbers

$$\begin{array}{r} 249 \\ \times\ 3 \\ \hline \end{array}$$

$6\overline{)324}$

Place Value: Whole Numbers

Identify the place value of the underlined digits.

6,782,345
40 **Tens**

69,282,365 _____

562,364,793 _____

In order to identify the place value of the digit underlined, rewrite the underlined digit below and fill in the rest with zeros!

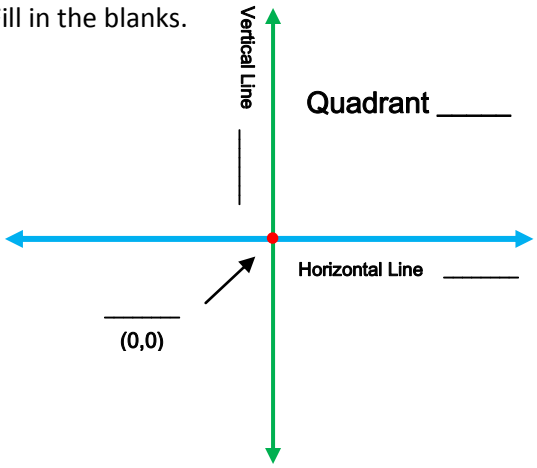
Fractions: Add and Subtract with LIKE Denominators

$$\begin{array}{r} \frac{6}{9} \\ \frac{2}{9} \\ +\ \frac{}{} \\ \hline \end{array}$$

$$\begin{array}{r} \frac{8}{9} \\ \frac{6}{9} \\ -\ \frac{}{} \\ \hline \end{array}$$

Coordinate Plane: Identify Attributes

Fill in the blanks.



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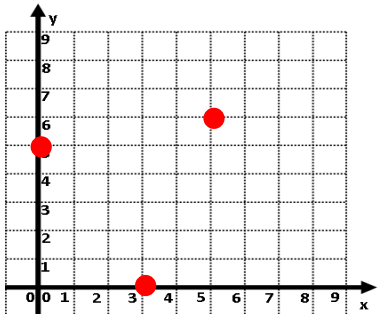


First Move x ↔	Second Move y ↕
3	0
5	6
3	9
8	1
0	5
2	7

Order of Operations

Great Educators Make Doing Algebra Simple!

Grouping Symbols **E**xponent **M**ultiply-**D**ivide (left to right) first then **A**dd-**S**ubtract(left to right)

10 – 6 + 5	40 – 12 ÷ 6	5 + 5 ÷ 5	8 + 12 – 6
4 + 5	40 – 2	5 + ____	_____ – 6
9	38	_____	_____

Vocabulary

sum
difference
quotient
product
rational number
variable

A ratio of two integers where the denominator is not "0". _____

The answer when you add. _____

The answer when you divide. _____

The answer when you subtract. _____

The answer to a multiplication problem. _____

A symbol, usually a letter, that represents one or more numbers. _____

Fifth Grade Builder # 3

Name: _____

Computation: Add and Subtract Whole Numbers

$$\begin{array}{r} 7{,}426 \\ +\ \ 145 \\ \hline \end{array}$$

$$\begin{array}{r} 3{,}564 \\ -\ \ 236 \\ \hline \end{array}$$

Computation: Multiply and Divide Whole Numbers

$$\begin{array}{r} 650 \\ \times\ \ 5 \\ \hline \end{array}$$

$3\overline{)639}$

Place Value: Whole Numbers

Identify the place value of the underlined digits.

82,345 _____

358,765 _____

2,365,978 _____

In order to identify the place value of the digit underlined, rewrite the underlined digit below and fill in the rest with zeros!

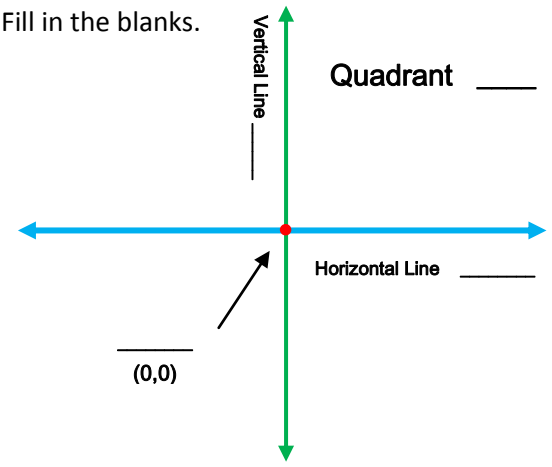
Fractions: Add and Subtract with LIKE Denominators

$$\begin{array}{r} \frac{4}{5} \\ +\ \frac{1}{5} \\ \hline \end{array}$$

$$\begin{array}{r} \frac{12}{20} \\ -\ \frac{7}{20} \\ \hline \end{array}$$

Coordinate Plane: Identify Attributes

Fill in the blanks.



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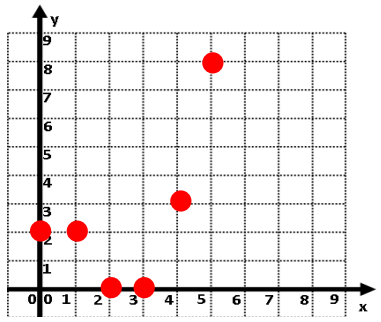


Fill in the coordinates of the points.

x ↔	y ↕
0	2

Order of Operations

Great Educators Make Doing Algebra Simple!

Grouping Symbols **E**xponent **M**ultiply-**D**ivide (left to right) first then **A**dd-**S**ubtract(left to right)

10 × 6 + 5	2 × 12 ÷ 6	8 + 5 × 5	12 ÷ 2 – 6
60 + 5	24 ÷ 6	8 + ____	____ – 6
65	4	____	____

Vocabulary

Coordinate plane
Origin
x-axis
y-axis
x-coordinate
y-coordinate

_____ The vertical axis in a coordinate plane.

_____ A plane formed by the intersection of a horizontal number line with a vertical number line.

_____ The intersection of the vertical and horizontal lines in a coordinate plane. (0,0)

_____ The second number in an ordered pair. (x,y)

_____ The horizontal axis in a coordinate plane.

_____ The first number in an ordered pair. (x,y)

Fifth Grade Builder # 4

Name: _____

Computation: Add and Subtract Whole Numbers

$$\begin{array}{r} 3{,}625 \\ +\ \ 149 \\ \hline \end{array}$$

$$\begin{array}{r} 36{,}046 \\ -\ \ 254 \\ \hline \end{array}$$

Computation: Multiply and Divide Whole Numbers

$$\begin{array}{r} 1{,}356 \\ \times\ \ 3 \\ \hline \end{array}$$

$2\overline{)428}$

Place Value: Whole Numbers

Identify the place value of the underlined digits.

692,836 _____

3,656,335,055 _____

982,364,793 _____

In order to identify the place value of the digit underlined, rewrite the underlined digit below and fill in the rest with zeros!

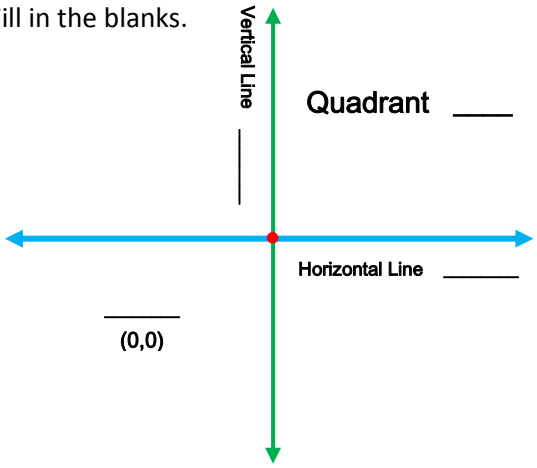
Fractions: Add and Subtract with LIKE Denominators

$$\begin{array}{r} \frac{16}{39} \\ +\ \frac{11}{39} \\ \hline \end{array}$$

$$\begin{array}{r} \frac{36}{50} \\ -\ \frac{32}{50} \\ \hline \end{array}$$

Coordinate Plane: Identify Attributes

Fill in the blanks.



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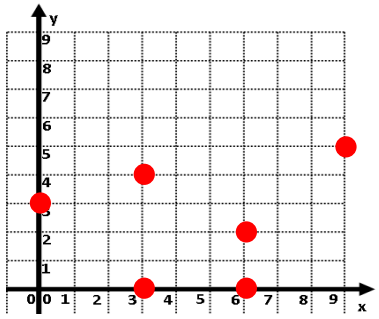


Fill in the coordinates of the points.

x ↔	y ↕
3	0

Order of Operations

Grouping Symbols **E**xponent **M**ultiply-**D**ivide (left to right) first then **A**dd-**S**ubtract(left to right)

2 × 6 + 5	2 × 12 ÷ 6	8 + 5 × 5 – 3	12 ÷ 2 – 3
____ + 5	_____ ÷ 6	8 + _____ – 3	_____ – 3
____	_____	_____ – 3	_____
		_____	

Vocabulary

sum
difference
quotient
product
rational number
variable

The answer when you divide. _____

The answer when you subtract. _____

The answer to a multiplication problem. _____

A ratio of two integers where the denominator is not "0". _____

The answer when you add. _____

A symbol, usually a letter, that represents one or more numbers. _____

Fifth Grade Builder # 5

Name: _____

Computation: Add and Subtract Whole Numbers

$$\begin{array}{r} 56{,}202 \\ +\ 1{,}435 \\ \hline \end{array}$$

$$\begin{array}{r} 170{,}425 \\ -\ 153 \\ \hline \end{array}$$

Computation: Multiply and Divide Whole Numbers

$$\begin{array}{r} 42 \\ \times\ 13 \\ \hline \end{array}$$

$3\overline{)669}$

Place Value: Decimals

0.3

10 ths

$\frac{3}{10}$

three tenths

0.125

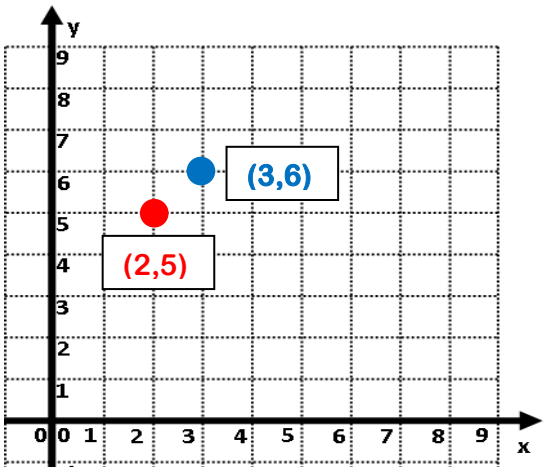
Place a 1 under the decimal and fill in with zeros, **don't forget your ths**, to identify the place value of the decimal.

Fractions: Add and Subtract with LIKE Denominators

$$1\frac{1}{3} + \frac{1}{3}$$

$$6\frac{3}{4} - 2\frac{2}{4}$$

Multiple Representations



Graphing Ordered Pairs

x	Process y = x + 3	y
2	y = 2 + 3	5
3	y = 3 + 3	6
4		
5		

Fill in the table and graph the points.

y = x + 3
y = 2 + 3
y = 5
(x , y)
ordered pair (2 , 5)

y = x + 3
y = 3 + 3
y = 6
ordered pair (3 , 6)

y = x + 3
y = __ + 3
y = __
ordered pair (,)

y = x + 3
y = __ + 3
y = __
ordered pair (,)

Order of Operations

Grouping Symbols **E**xponent **M**ultiply-**D**ivide (left to right) first then **A**dd-**S**ubtract(left to right)

56 ÷ 7 × 3 +1
_____ x 3 + 1
_____ + 1
_____

36 – 23 + 8 ÷ 2
36 – 23 + _____
_____ + _____
_____

3 + 7 – (6 + 3)
3 + 7 – 9
10 – 9
1

Vocabulary

Coordinate plane
Origin
x-axis
y-axis
x-coordinate
y-coordinate

_____ A plane formed by the intersection of a horizontal number line with a vertical number line.
_____ The horizontal axis in a coordinate plane.
_____ The first number in an ordered pair. (x,y)
_____ The vertical axis in a coordinate plane.
_____ The intersection of the vertical and horizontal lines in a coordinate plane. (0,0)
_____ The second number in an ordered pair. (x,y)

Fifth Grade Builder # 6

Name: _____

Computation: Add and Subtract Whole Numbers

$$\begin{array}{r} 56{,}202 \\ +\ \ 1{,}435 \\ \hline \end{array}$$

$$\begin{array}{r} 170{,}526 \\ -\ \ 623 \\ \hline \end{array}$$

Computation: Multiply and Divide Whole Numbers

$$\begin{array}{r} 86 \\ \times\ 12 \\ \hline \end{array}$$

$2\overline{)468}$

Place Value: Decimals

0.54 0.1

100ths

$\frac{54}{100}$

fifty-four hundredths

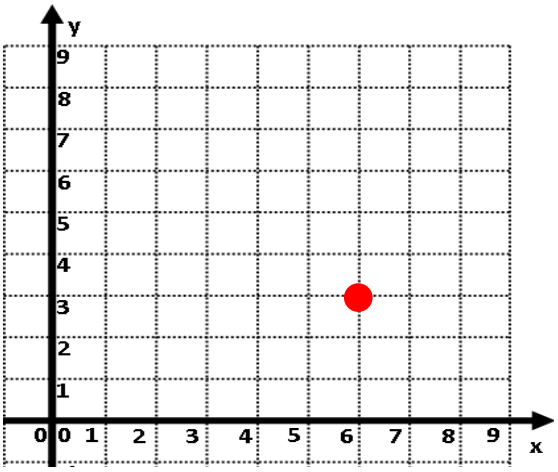
Place a 1 under the decimal and fill in with zeros, **don't forget your ths**, to identify the place value of the

Fractions: Add and Subtract with LIKE Denominators

$$\begin{array}{r} 5\ \frac{3}{7} \\ +\ 2\ \frac{2}{7} \\ \hline \end{array}$$

$$\begin{array}{r} 8\ \frac{5}{6} \\ -\ 3\ \frac{2}{6} \\ \hline \end{array}$$

Multiple Representations



Graphing Ordered Pairs

x	Process y = x – 3	y
6	y = 6 – 3	3
7		
8		
9		

Fill in the table and graph the points.

y = x – 3
y = 6 – 3
y = 3

(x , y)
ordered pair (6 , 3)

y = x – 3
y = __ – 3
y = __

ordered pair (,)

y = x – 3
y = __ – 3
y = __

ordered pair (,)

y = x – 3
y = __ – 3
y = __

ordered pair (,)

Order of Operations

Grouping Symbols **E**xponent **M**ultiply-**D**ivide (left to right) first then **A**dd-**S**ubtract(left to right)

12 + 3 – 4

____ – 4

____

2 + 18 ÷ 6

2 + _____

_____

2 + 9 – (4 + 3)

2 + 9 – _____

_____ – _____

Vocabulary

sum
difference
quotient
product
rational number
variable

A symbol, usually a letter, that represents one or more numbers. _____

A ratio of two integers where the denominator is not "0". _____

The answer when you add. _____

The answer to a multiplication problem. _____

The answer when you divide. _____

The answer when you subtract. _____

Fifth Grade Builder # 7

Name: _____

Computation: Add and Subtract Whole Numbers

$$\begin{array}{r} 2{,}356{,}202 \\ +\ \ 156{,}435 \\ \hline \end{array}$$

$$\begin{array}{r} 1{,}706{,}425 \\ -\ \ 1{,}534 \\ \hline \end{array}$$

Computation: Multiply and Divide Whole Numbers

$$\begin{array}{r} 36 \\ \times\ 18 \\ \hline \end{array}$$

$8\overline{)568}$

Place Value: Decimals

0.135

0.125

1000ths

$\frac{125}{1000}$

One hundred twenty-five thousandths

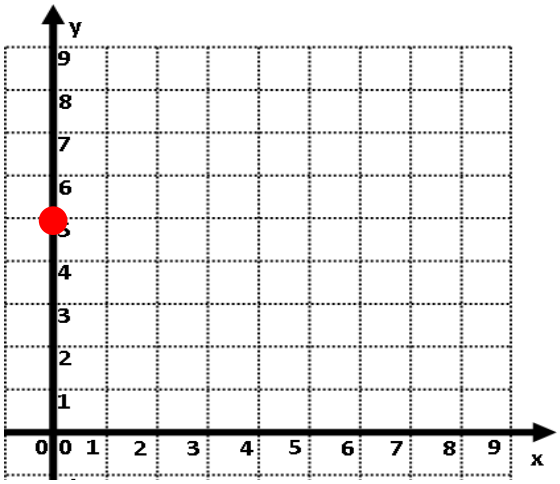
Place a 1 under the decimal and fill in with zeros, **don't forget your ths**, to identify the place value of the decimal.

Fractions: Add and Subtract with LIKE Denominators

$$3\frac{2}{5} + \frac{1}{5}$$

$$5\frac{3}{5} - 2\frac{2}{5}$$

Multiple Representations



Graphing Ordered Pairs

x	Process y = 5 + x	y
0	y = 5 + x	5
1		
2		
3		

Fill in the table and graph the points.

y = 5 + x
y = 5 + **0**
y = **5**

(x , y)
ordered pair (0,5)

y = 5 + x
y = 5 + __
y = __

ordered pair (,)

y = 5 + x
y = 5 + __
y = __

ordered pair (,)

y = 5 + x
y = 5 + __
y = __

ordered pair (,)

Order of Operations

Grouping Symbols **E**xponent **M**ultiply-**D**ivide (left to right) first then **A**dd-**S**ubtract(left to right)

2 + (3 – 2)
2 + _____
_____

56 + 6 ÷ 2
56 + _____
_____

17 – 3 – (6 × 2)
17 – 3 – _____
_____ – _____
_____

Vocabulary

Coordinate plane
Origin
x-axis
y-axis
x-coordinate
y-coordinate

_____ The first number in an ordered pair. (x,y)
_____ The horizontal axis in a coordinate plane.
_____ The vertical axis in a coordinate plane.
_____ The intersection of the vertical and horizontal lines in a coordinate plane. (0,0)
_____ A plane formed by the intersection of a horizontal number line with a vertical number line.
_____ The second number in an ordered pair. (x,y)

Fifth Grade Builder # 8

Name: _____

Computation: Add and Subtract Whole Numbers

$$\begin{array}{r} 62{,}024 \\ +\ \ 1{,}435 \\ \hline \end{array}$$

$$\begin{array}{r} 170{,}425 \\ -\ \ 2{,}153 \\ \hline \end{array}$$

Computation: Multiply and Divide Whole Numbers

$$\begin{array}{r} 67 \\ \times\ 63 \\ \hline \end{array}$$

$3\overline{)183}$

Place Value: Decimals

0.9 0.57 0.365

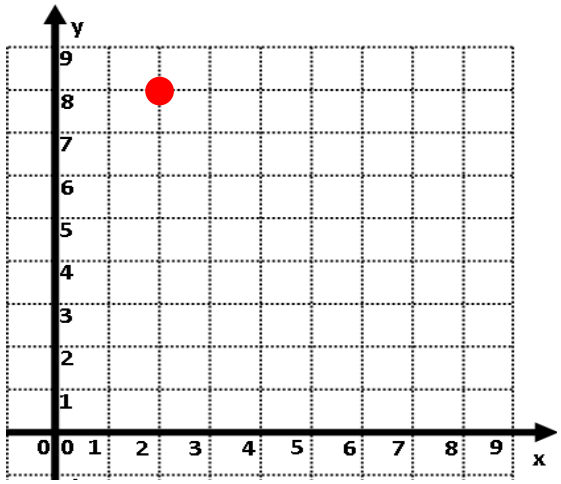
Place a 1 under the decimal and fill in with zeros, **don't forget your ths**, to identify the place value of the decimal.

Fractions: Add and Subtract with LIKE Denominators

$$\begin{array}{r} 2\ \frac{3}{5} \\ +\ \ \frac{1}{5} \\ \hline \end{array}$$

$$\begin{array}{r} 5\ \frac{3}{8} \\ -\ 2\ \frac{2}{8} \\ \hline \end{array}$$

Multiple Representations



Graphing Ordered Pairs

x	Process y = 10 – x	y
2	y = 10 – 2	8
3		
4		
5		

Fill in the table and graph the points.

y = 10 – x
y = 10 – 2
y = 8
(x , y)
ordered pair (2 , 8)

y = 10 – x
y = 10 – __
y = __
ordered pair (,)

y = 10 – x
y = 10 – __
y = __
ordered pair (,)

y = 10 – x
y = 10 – __
y = __
ordered pair (,)

Order of Operations

Grouping Symbols **E**xponent **M**ultiply-**D**ivide (left to right) first then **A**dd-**S**ubtract(left to right)

(2 + 8) × 4 ÷ 10
_____ × 4 ÷ 10
_____ ÷ 10
_____

23 + 24 ÷ 6
23 + _____
_____

3 + 7 – (6 + 3)
3 + 7 – _____
_____ – _____
_____

Vocabulary

sum
difference
quotient
product
rational number
variable

The answer when you divide. _____
The answer when you subtract. _____
A ratio of two integers where the denominator is not "0". _____
The answer when you add. _____
The answer to a multiplication problem. _____
A symbol, usually a letter, that represents one or more numbers. _____

Fifth Grade Builder # 9

Name: _____

Computation: Add and Subtract Decimals

$$\begin{array}{r} 24.6 \\ +\ 12.3 \\ \hline \end{array}$$

$$\begin{array}{r} 56.23 \\ -\ 1.53 \\ \hline \end{array}$$

Computation: Multiply and Divide Whole Numbers

$$\begin{array}{r} 115 \\ \times\ 25 \\ \hline \end{array}$$

$3\overline{)156}$

Place Value: Whole # Comparisons

Use the inequality symbols **greater than** > , **less than** < and the **equal to sign** = to compare the numbers.

1,569 ☐ 1,695

26,356 ☐ 26,256

896,369 ☐ 896,368

1,356,169,569 ☐ 1,356,169,569

Common Factors/GCF

Find the common factors CF and the greatest common factor GCF.

6- 1, 2, 3, 6

12- 1, 2, 3, 4, 6, 12

CF- **1,2,3,6** GCF- **6**

Equivalent Fractions

Generate Equivalent fractions by multiplying the given fraction by one made by using 2's, 3's and 4's!

Remember to use a one!

$\frac{3}{3}$ = 1 whole

$\frac{1}{2} \times \frac{2}{2} = \frac{2}{4}$ $\frac{1}{2} \times \frac{3}{3} = \_\_$

$\frac{1}{2} \times \frac{4}{4} = \_\_$

Mixed/Improper fractions

Change the mixed fraction to an improper fraction.

$2\frac{5}{8} = \frac{\square}{8}$

☐ x ☐ + ◯ = △

$2\frac{5}{8} = \frac{21}{8}$ new numerator / keep denominator

Expressions

GEMDAS

15 + 20 ÷ (7 + 3)

15 + 20 ÷ _____

15 + _____

_____

Equations

Remember when you have a number next to the variable (or letter) you have to multiply!

Evaluate the equations when x is equal to 3.

y = 2x

y = 2(3)

y = 6

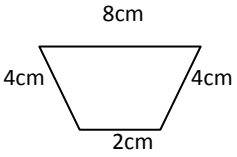
Now you try!

y = 6x

y = 6(___)

y = ___

Perimeter



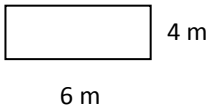
$P = S_1 + S_2 + S_3 + S_4$

P = _cm + _ cm +_ cm +__cm

P = ___ cm + ___ cm

P = ____ cm

Area

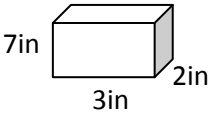


A = l x w

A= (_____ m) x (____ m)

A= _____ m^2

Volume



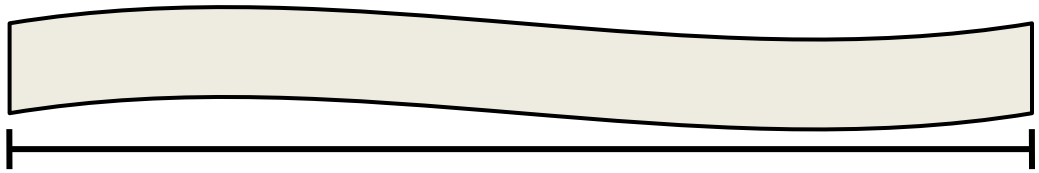
V = l x w x h

V= __in x __in x __in

V= __in^2 x __in

V= ____ in^3

Measurement



Use your customary ruler to measure the picture to the nearest inch and your metric ruler to measure to the nearest cm. Round to a whole number.

_____ in.

_____ cm.

Vocabulary

inequality
less than
greater than
equal to
expression
equation

A mathematical sentence that contains one or more of these symbols <, >, ≤, ≥, or ≠. _____

> _____ < _____ = _____

A mathematical sentence formed by placing an equal sign between two expressions._____

A mathematical phrase containing numbers and operating symbols. _____

Fifth Grade Builder # 10

Name: _____

Computation: Add and Subtract Decimals

$$\begin{array}{r} 34.6 \\ +\ 16.3 \\ \hline \end{array}$$

$$\begin{array}{r} 76.25 \\ -\ 5.33 \\ \hline \end{array}$$

Computation: Multiply and Divide Whole Numbers

$$\begin{array}{r} 125 \\ \times\ 16 \\ \hline \end{array}$$

$8\overline{)152}$

Place Value: Whole # Comparisons

Use the inequality symbols **greater than** > , **less than** < and the **equal to sign** = to compare the numbers.

1,669 ☐ 1,995

36,266 ☐ 26,256

896,368 ☐ 896,368

1,634,169,569 ☐ 2,356,169,569

Common Factors/GCF

Find the common factors CF and the greatest common factor GCF.

8-

24-

CF- GCF-

Equivalent Fractions

Generate Equivalent fractions by multiplying the given fraction by one made by using 2's, 3's and 4's!

Remember to use a one!

$\frac{2}{2}$ = 1 whole

$\frac{1}{3} \times \frac{2}{2} = \frac{2}{4}$ $\frac{1}{3} \times \frac{3}{3} = \frac{\ }{\ }$

$\frac{1}{3} \times \frac{\ }{\ } = \frac{\ }{\ }$

Mixed/Improper fractions

Change the mixed fraction to an improper fraction.

= = example

☐ x ☐ + ◯ = △

$3\frac{2}{3} = \frac{\ }{3}$ new numerator / keep denominator

Expressions

GEMDAS

13 + 40 ÷ (6 + 4)

13 + 40 ÷ _____

13 + _____

_____

Equations

Remember when you have a number next to the variable (or letter) you have to multiply!

Evaluate the equations when x is equal to 5.

y = 2x

y = 2(5)

y = 10

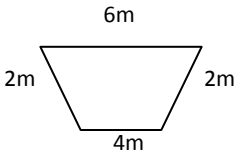
Now you try!

y = 6x

y = 6(___)

y = ___

Perimeter



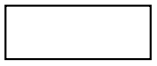
$P = S_1 + S_2 + S_3 + S_4$

P = _m + _m + _ m + _ m

P = ___ m + ___ m

P = ____ m

Area

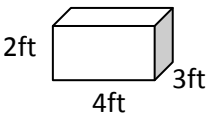


A = l x w

A= (___ cm) x (___ cm)

A= _____ cm^2

Volume



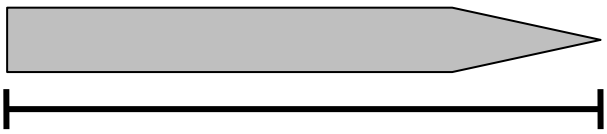
V = l x w x h

V= __ft x __ft x __ft

V= ___ft^2 x ___ft

V= ____ ft^3

Measurement



Use your customary ruler to measure the picture to the nearest inch and your metric ruler to measure to the nearest cm. Round to a whole number.

_____ in.

_____ cm.

Vocabulary

area
perimeter
volume
fraction
numerator
denominator

The distance around a figure. _____

The bottom part of a fraction. _____

The number of square units needed to cover a given surface. _____

The number of cubic units needed to fill the space inside a 3D figure. _____

The top part of a fraction. _____

A number used to name a part of a group or a whole. _____

KEYS

ALGEBRA READINESS

BUILDERS

Fifth Grade Math

Fifth Grade Builder # 1

Name: _____

Computation: Add and Subtract Whole Numbers

$$\begin{array}{r} 322 \\ +\ 145 \\ \hline 467 \end{array}$$

$$\begin{array}{r} {\scriptstyle 6\ 14} \\ 1\not{7}\not{4} \\ -\ 15 \\ \hline 159 \end{array}$$

Computation: Multiply and Divide Whole Numbers

$$\begin{array}{r} {\scriptstyle 1\ 2} \\ 136 \\ \times\ \ 4 \\ \hline 544 \end{array}$$

$$4\overline{)248} \quad 62,\ -24,\ 08,\ -8,\ 0$$

Place Value: Whole Numbers

Identify the place value of the underlined digits.

6,782,345 — 2000 — Thousands

1356,928 — Ten-Thousands — 50,000

560,256,980 — Hundred-Thousands — 200,000

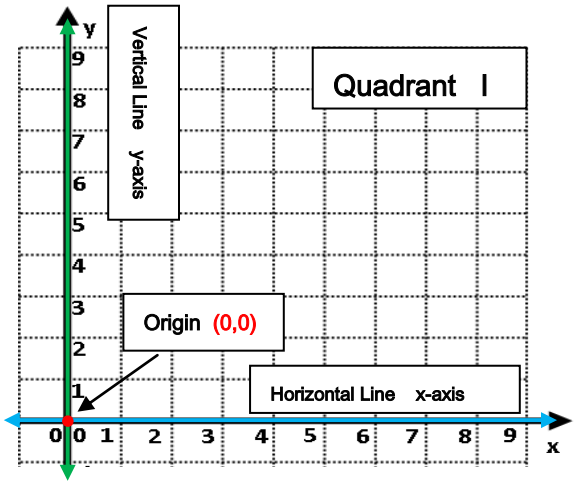
In order to identify the place value of the digit underlined, rewrite the underlined digit below and fill in the rest with zeros!

Fractions: Add and Subtract with LIKE Denominators

$$\frac{4}{8} + \frac{3}{8} = \frac{7}{8}$$

$$\frac{3}{4} - \frac{2}{4} = \frac{1}{4}$$

Coordinate Plane: Identify Attributes



Graphing Ordered Pairs

Ordered pairs are points on a coordinate plane. These points are given with an x-coordinate, and a y-coordinate. (x,y)

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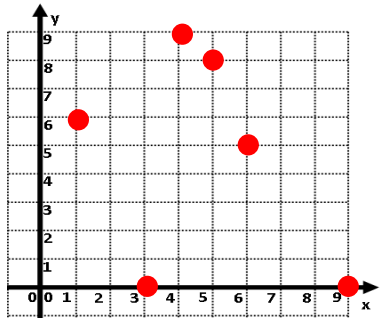


First Move x ↔	Second Move y ↕
3	0
1	6
6	5
5	8
4	9
9	0

Order of Operations

Great Educators Make Doing Algebra Simple!

Grouping Symbols **E**xponent **M**ultiply-**D**ivide (left to right) first then **A**dd-**S**ubtract(left to right)

9 – 7 + 5	20 – 4 ÷ 2	6 + 6 ÷ 6	8 + 10 – 3
2 + 5	20 – 2	6 + 1	18 – 3
7	18	7	15

Vocabulary

Coordinate plane
Origin
x-axis
y-axis
x-coordinate
y-coordinate

y-axis	The vertical axis in a coordinate plane.
origin	The intersection of the vertical and horizontal lines in a coordinate plane. (0,0)
x-axis	The horizontal axis in a coordinate plane.
x-coordinate	The first number in an ordered pair. (x,y)
y- coordinate	The second number in an ordered pair. (x,y)
coordinate plane	A plane formed by the intersection of a horizontal number line with a vertical number line.

Fifth Grade Builder # 2

Name: _____

Computation: Add and Subtract Whole Numbers

$$\begin{array}{r} 362 \\ +\ 14 \\ \hline 376 \end{array}$$

$$\begin{array}{r} {\scriptstyle 6\ 9\ 10\ 14} \\ 1{,}704 \\ -\ 15 \\ \hline 1{,}689 \end{array}$$

Computation: Multiply and Divide Whole Numbers

$$\begin{array}{r} {\scriptstyle 1\ 2} \\ 249 \\ \times\ 3 \\ \hline 747 \end{array}$$

$$6\overline{)324} \quad 54$$

-30

24

-24

0

Place Value: Whole Numbers

Identify the place value of the underlined digits.

6,782,345 — 40 — **Tens**

69,282,365 — **Hundreds** — 300

562,364,793 — **Ten-Millions** — 60 000 000

In order to identify the place value of the digit underlined, rewrite the underlined digit below and fill in the rest with zeros!

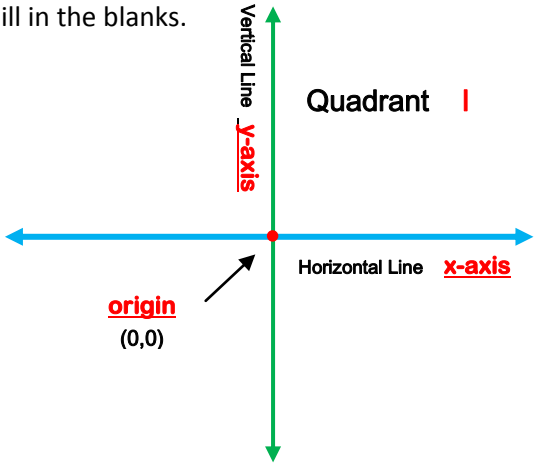
Fractions: Add and Subtract with LIKE Denominators

$$\frac{6}{9} + \frac{2}{9} = \frac{8}{9}$$

$$\frac{8}{9} - \frac{6}{9} = \frac{2}{9}$$

Coordinate Plane: Identify Attributes

Fill in the blanks.



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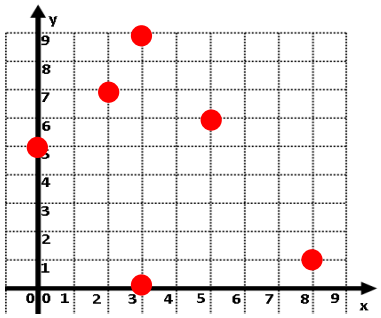


First Move (x ↔)	Second Move (y ↕)
3	0
5	6
3	9
8	1
0	5
2	7

Order of Operations

Great Educators Make Doing Algebra Simple!

Grouping Symbols **E**xponent **M**ultiply-**D**ivide (left to right) first then **A**dd-**S**ubtract(left to right)

$10 - 6 + 5$

$4 + 5$

9

$40 - 12 \div 6$

$40 - 2$

38

$5 + 5 \div 5$

$5 + 1$

6

$8 + 12 - 6$

$20 - 6$

14

Vocabulary

sum	The answer when you add. **sum**
difference	The answer when you subtract. **difference**
quotient	The answer when you divide. **quotient**
product	The answer to a multiplication problem. **product**
rational number	A ratio of two integers where the denominator is not "0". **rational number**
variable	A symbol, usually a letter, that represents one or more numbers. **variable**

Fifth Grade Builder # 3

Name: _____

Computation: Add and Subtract Whole Numbers

$$\begin{array}{r} {\scriptstyle 1} \\ 7{,}426 \\ +\ \ 145 \\ \hline 7{,}571 \end{array}$$

$$\begin{array}{r} {\scriptstyle 5\ 14} \\ 3{,}5\cancel{64} \\ -\ \ 236 \\ \hline 3{,}328 \end{array}$$

Computation: Multiply and Divide Whole Numbers

$$\begin{array}{r} {\scriptstyle 2} \\ 650 \\ \times\ \ 5 \\ \hline 3{,}250 \end{array}$$

$$3\overline{)639} \quad 213$$
-6
03
$-\ 3$
09
$-\ 9$
0

Place Value: Whole Numbers

Identify the place value of the underlined digits.

82,345
2 000 Thousands

358,765
20 000 Ten Thousands

2,365,978
8 Ones

In order to identify the place value of the digit underlined, rewrite the underlined digit below and fill in the rest with zeros!

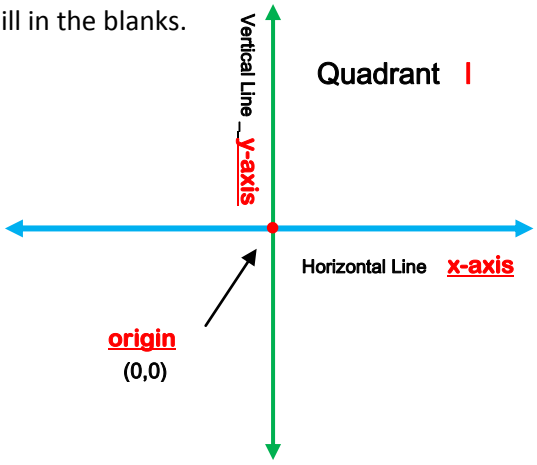
Fractions: Add and Subtract with LIKE Denominators

$$\begin{array}{r} \frac{4}{5} \\ \frac{1}{5} \\ +\ \ \frac{1}{5} \\ \hline \frac{5}{5} = 1 \end{array}$$

$$\begin{array}{r} \frac{12}{20} \\ \frac{7}{20} \\ -\ \ \frac{7}{20} \\ \hline \frac{5}{20} \div \frac{5}{5} = \frac{1}{4} \end{array}$$

Coordinate Plane: Identify Attributes

Fill in the blanks.



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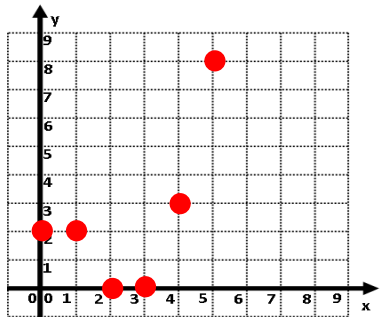


Fill in the coordinates of the points.

x ↔	y ↕
0	2
1	2
2	0
3	0
4	3
5	8

Order of Operations

Great Educators Make Doing Algebra Simple!

Grouping Symbols **E**xponent **M**ultiply-**D**ivide (left to right) first then **A**dd-**S**ubtract(left to right)

10 × 6 + 5	2 × 12 ÷ 6	8 + 5 × 5	12 ÷ 2 – 6
60 + 5	24 ÷ 6	8 + 25	6 – 6
65	4	33	0

Vocabulary

Coordinate plane	
Origin	
x-axis	
y-axis	
x-coordinate	
y-coordinate	
y-axis	The vertical axis in a coordinate plane.
coordinate plane	A plane formed by the intersection of a horizontal number line with a vertical number line.
origin	The intersection of the vertical and horizontal lines in a coordinate plane. (0,0)
y- coordinate	The second number in an ordered pair. (x,y)
x-axis	The horizontal axis in a coordinate plane.
x-coordinate	The first number in an ordered pair. (x,y)

Fifth Grade Builder # 4

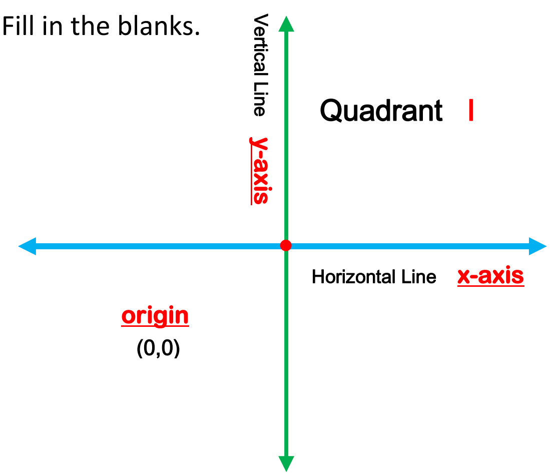
Name: ______________________

Computation: Add and Subtract Whole Numbers		Computation: Multiply and Divide Whole Numbers	
3,625 + 149 = **3,774**	36,046 − 254 = **35,792**	1,356 × 3 = **4,068**	428 ÷ 2 = **214** (−4, 02, −2, 08, −8, 0)

Place Value: Whole Numbers		Fractions: Add and Subtract with LIKE Denominators	
Identify the place value of the underlined digits. 692,836 — **30** — **Tens** 3,656,335,055 — **3 000 000 000** — **Billions** 982,364,793 — **900 000 000** — **Hundred-Millions**	In order to identify the place value of the digit underlined, rewrite the underlined digit below and fill in the rest with zeros!	$\frac{16}{39} + \frac{11}{39}$ = $\frac{27}{39} \div \frac{3}{3} = \frac{9}{13}$	$\frac{36}{50} - \frac{32}{50}$ = $\frac{4}{50} \div \frac{2}{2} = \frac{2}{25}$

Coordinate Plane: Identify Attributes

Fill in the blanks.



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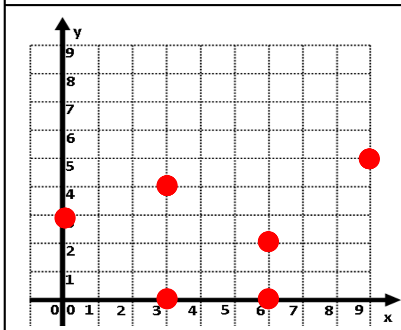


Fill in the coordinates of the points.

x ↔	y ↕
3	0
0	3
3	4
6	0
6	2
9	5

Order of Operations

Grouping Symbols **E**xponent **M**ultiply-**D**ivide (left to right) first then **A**dd-**S**ubtract(left to right)

2 × 6 + 5	2 × 12 ÷ 6	8 + 5 × 5 – 3	12 ÷ 2 – 3
12 + 5	**24** ÷ 6	8 + **25** – 3	**6** – 3
17	**4**	**33** – 3	**3**
		30	

Vocabulary

sum
difference
quotient
product
rational number
variable

The answer when you divide. **quotient**

The answer when you subtract. **difference**

The answer to a multiplication problem. **product**

A ratio of two integers where the denominator is not "0". **rational number**

The answer when you add. **sum**

A symbol, usually a letter, that represents one or more numbers. **variable**

Fifth Grade Builder # 5

Name: _____

Computation: Add and Subtract Whole Numbers

$$\begin{array}{r} 56{,}202 \\ +\ \ 1{,}435 \\ \hline 57{,}637 \end{array}$$

$$\begin{array}{r} {\scriptstyle 3\ 12} \\ 170{,}425 \\ -\ \ \ \ 153 \\ \hline 170{,}272 \end{array}$$

Computation: Multiply and Divide Whole Numbers

$$\begin{array}{r} 42 \\ \times\ 13 \\ \hline 126 \\ +\ 420 \\ \hline 546 \end{array}$$

$$3\overline{)669} \quad 223$$

-6

06

$-\ 6$

09

$-\ 9$

0

Place Value: Decimals

0.3

10 ths

$\frac{3}{10}$

three tenths

0.125

1000 ths

$\frac{125}{1000}$

one hundred twenty-five thousandths

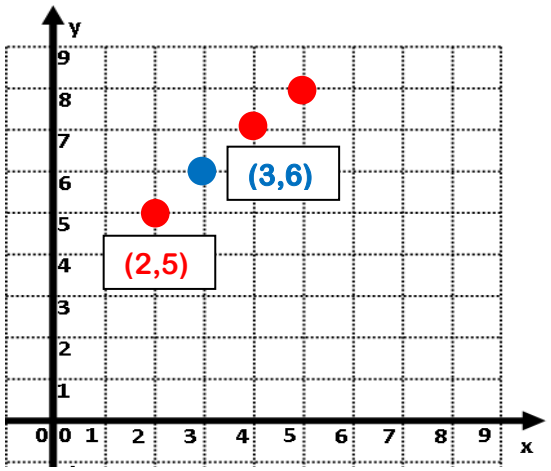
Place a 1 under the decimal and fill in with zeros, **don't forget your ths**, to identify the place value of the decimal.

Fractions: Add and Subtract with LIKE Denominators

$$1\frac{1}{3} + \frac{1}{3} = 1\frac{2}{3}$$

$$6\frac{3}{4} - 2\frac{2}{4} = 4\frac{1}{4}$$

Multiple Representations



Graphing Ordered Pairs

x	Process y = x + 3	y
2	y = 2 + 3	5
3	y = 3 + 3	6
4	y = 4 + 3	7
5	y = 5 + 3	8

Fill in the table and graph the points.

y = x + 3
y = 2 + 3
y = 5

(x , y)

ordered pair (2 , 5)

y = x + 3
y = 3 + 3
y = 6

ordered pair (3 , 6)

y = x + 3
y = 4 + 3
y = 7

ordered pair (4 , 7)

y = x + 3
y = 5 + 3
y = 8

ordered pair (5 , 8)

Order of Operations

Grouping Symbols **E**xponent **M**ultiply-**D**ivide (left to right) first then **A**dd-**S**ubtract(left to right)

56 ÷ 7 × 3 +1
8 x 3 + 1
24 + 1
25

36 – 23 + 8 ÷ 2
36 – 23 + 4
13 + 4
17

3 + 7 – (6 + 3)
3 + 7 – 9
10 – 9
1

Vocabulary

Coordinate plane
Origin
x-axis
y-axis
x-coordinate
y-coordinate

coordinate plane	A plane formed by the intersection of a horizontal number line with a vertical number line.
x-axis	The horizontal axis in a coordinate plane.
x-coordinate	The first number in an ordered pair. (x,y)
y-axis	The vertical axis in a coordinate plane.
origin	The intersection of the vertical and horizontal lines in a coordinate plane. (0,0)
y- coordinate	The second number in an ordered pair. (x,y)

Fifth Grade Builder # 6

Name: ______________________

Computation: Add and Subtract Whole Numbers

$$\begin{array}{r} 56{,}202 \\ +\ \ 1{,}435 \\ \hline 57{,}637 \end{array}$$

$$\begin{array}{r} {}^{6\ \overset{9}{10}\ 15} \\ 170{,}526 \\ -\ \ \ 623 \\ \hline 169{,}903 \end{array}$$

Computation: Multiply and Divide Whole Numbers

$$\begin{array}{r} {}^{1} \\ 86 \\ \times\ 12 \\ \hline {}^{1}172 \\ +\ 860 \\ \hline 1{,}032 \end{array}$$

$$2\overline{)468} = 234$$

−4
06
− 6
08
− 8
0

Place Value: Decimals

0.54
100ths
$\frac{54}{100}$
fifty-four hundredths

0.1
10ths
$\frac{1}{10}$
one tenth

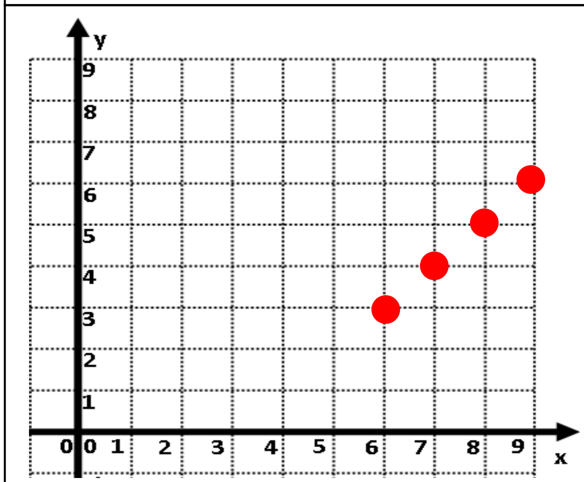
Place a 1 under the decimal and fill in with zeros, **don't forget your ths**, to identify the place value of the decimal.

Fractions: Add and Subtract with LIKE Denominators

$$5\frac{3}{7} + 2\frac{2}{7} = 7\frac{5}{7}$$

$$8\frac{5}{6} - 3\frac{2}{6} = 5\frac{3}{6} \div \frac{3}{3} = 5\frac{1}{2}$$

Multiple Representations



Graphing Ordered Pairs

x	Process $y = x - 3$	y
6	y = 6 – 3	3
7	y = 7 – 3	4
8	y = 8 – 3	5
9	y = 9 – 3	6

Fill in the table and graph the points.

y = x – 3
y = 6 – 3
y = 3
(x , y)
ordered pair (6 , 3)

y = x – 3
y = 7 – 3
y = 4
ordered pair (7 , 4)

y = x – 3
y = 8 – 3
y = 5
ordered pair (8 , 5)

y = x – 3
y = 9 – 3
y = 6
ordered pair (9 , 6)

Order of Operations

Grouping Symbols **E**xponent **M**ultiply-**D**ivide (left to right) first then **A**dd-**S**ubtract(left to right)

12 + 3 – 4
15 – 4
11

2 + 18 ÷ 6
2 + 3
5

2 + 9 – (4 + 3)
2 + 9 – 7
11 – 7
4

Vocabulary

sum
difference
quotient
product
rational number
variable

A symbol, usually a letter, that represents one or more numbers. **variable**

A ratio of two integers where the denominator is not "0". **rational number**

The answer when you add. **sum**

The answer to a multiplication problem. **product**

The answer when you divide. **quotient**

The answer when you subtract. **difference**

Fifth Grade Builder # 7

Name: _____

Computation: Add and Subtract Whole Numbers

$$\begin{array}{r} {\scriptstyle 1\ 1\ \ \ } \\ 2{,}356{,}202 \\ +\ \ 156{,}435 \\ \hline 2{,}412{,}637 \end{array}$$

$$\begin{array}{r} {\scriptstyle 5\ 13\ 12} \\ 1{,}70\not{6}{,}\not{4}25 \\ -\ \ \ 1{,}534 \\ \hline 1{,}704{,}891 \end{array}$$

Computation: Multiply and Divide Whole Numbers

$$\begin{array}{r} {\scriptstyle 4\ \ } \\ 36 \\ \times\ 18 \\ \hline {\scriptstyle 1}288 \\ +\ 360 \\ \hline 648 \end{array}$$

$$8\overline{)568} \quad 71$$
$$-\ 56$$
$$08$$
$$-\ 8$$
$$0$$

Place Value: Decimals

0.135
1000ths
$\frac{135}{1000}$
One hundred thirty-five thousandths

0.125
1000ths
$\frac{125}{1000}$
One hundred twenty-five thousandths

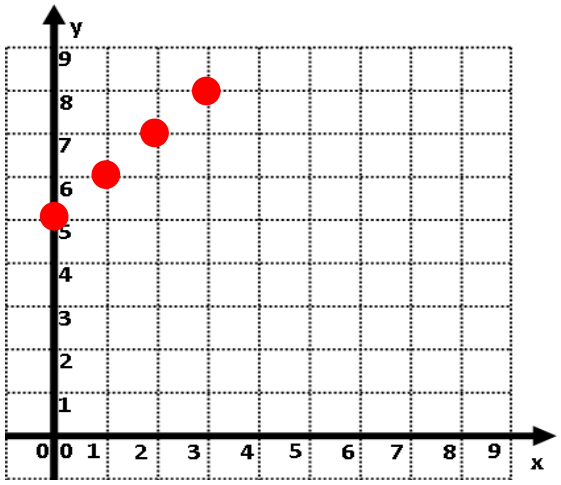
Place a 1 under the decimal and fill in with zeros, **don't forget your ths**, to identify the place value of the decimal.

Fractions: Add and Subtract with LIKE Denominators

$$3\frac{2}{5} + \frac{1}{5} = 3\frac{3}{5}$$

$$5\frac{3}{5} - 2\frac{2}{5} = 3\frac{1}{5}$$

Multiple Representations



Graphing Ordered Pairs

x	Process y = 5 + x	y
0	y = 5 + 0	5
1	y = 5 + 1	6
2	y = 5 + 2	7
3	y = 5 + 3	8

Fill in the table and graph the points.

y = 5 + x
y = 5 + 0
y = 5
(x , y)
ordered pair (0,5)

y = 5 + x
y = 5 + 1
y = 6
ordered pair (1,6)

y = 5 + x
y = 5 + 2
y = 7
ordered pair (2,7)

y = 5 + x
y = 5 + 3
y = 8
ordered pair (3,8)

Order of Operations

Grouping Symbols **E**xponent **M**ultiply-**D**ivide (left to right) first then **A**dd-**S**ubtract(left to right)

2 + (3 – 2)
2 + 1
3

56 + 6 ÷ 2
56 + 3
59

17 – 3 – (6 × 2)
17 – 3 – 12
14 – 12
2

Vocabulary

Coordinate plane
Origin
x-axis
y-axis
x-coordinate
y-coordinate

x-coordinate	The first number in an ordered pair. (x,y)
x-axis	The horizontal axis in a coordinate plane.
y-axis	The vertical axis in a coordinate plane.
origin	The intersection of the vertical and horizontal lines in a coordinate plane. (0,0)
coordinate plane	A plane formed by the intersection of a horizontal number line with a vertical number line.
y- coordinate	The second number in an ordered pair. (x,y)

Fifth Grade Builder # 8

Name: _____

Computation: Add and Subtract Whole Numbers

$$\begin{array}{r} 62{,}024 \\ +\ \ 1{,}435 \\ \hline 63{,}459 \end{array}$$

$$\begin{array}{r} {\scriptstyle 6\ 10\ 3\ 12} \\ 17\cancel{0}\cancel{,}\cancel{4}25 \\ -\ \ \ 2{,}153 \\ \hline 168{,}272 \end{array}$$

Computation: Multiply and Divide Whole Numbers

$$\begin{array}{r} {\scriptstyle 4\ \ 2} \\ 67 \\ \times\ 63 \\ \hline 201 \\ +4020 \\ \hline 4{,}221 \end{array}$$

$$3\overline{)183}\quad 61$$

$-\ 18$

03

$-\ 3$

0

Place Value: Decimals

0.9	0.57	0.365
10ths	100ths	1000ths
$\frac{9}{10}$	$\frac{57}{100}$	$\frac{365}{1000}$
nine tenths	fifty-seven hundredths	Three-hundred sixty-five thousandths

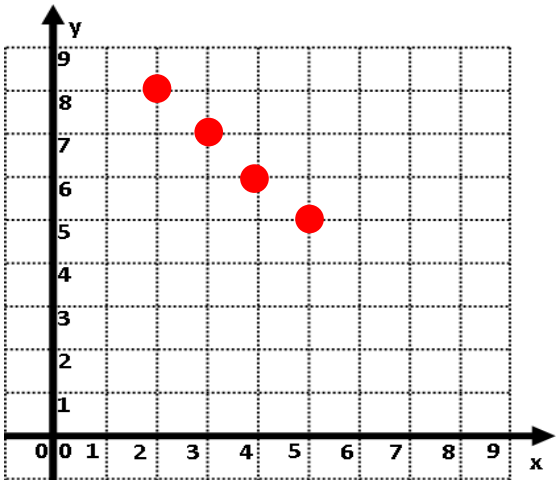
Place a 1 under the decimal and fill in with zeros, **don't forget your ths**, to identify the place value of the decimal.

Fractions: Add and Subtract with LIKE Denominators

$$\begin{array}{r} 2\ \frac{3}{5} \\ +\ \ \frac{1}{5} \\ \hline 2\frac{4}{5} \end{array}$$

$$\begin{array}{r} 5\ \frac{3}{8} \\ -\ 2\ \frac{2}{8} \\ \hline 3\frac{1}{8} \end{array}$$

Multiple Representations



Graphing Ordered Pairs

x	Process y = 10 – x	y
2	y = 10 – 2	8
3	y = 10 – 3	7
4	y = 10 – 4	6
5	y = 10 – 5	5

Fill in the table and graph the points.

y = 10 – x
y = 10 – 2
y = 8
(x , y)
ordered pair (2 , 8)

y = 10 – x
y = 10 – 3
y = 7
ordered pair (3 , 7)

y = 10 – x
y = 10 – 4
y = 6
ordered pair (4 , 6)

y = 10 – x
y = 10 – 5
y = 5
ordered pair (5 , 5)

Order of Operations

Grouping Symbols **E**xponent **M**ultiply-**D**ivide (left to right) first then **A**dd-**S**ubtract(left to right)

$(2 + 8) \times 4 \div 10$
$10 \times 4 \div 10$
$40 \div 10$
4

$23 + 24 \div 6$
$23 + 4$
27

$3 + 7 - (6 + 3)$
$3 + 7 - 9$
$10 - 9$
1

Vocabulary

sum
difference
quotient
product
rational number
variable

The answer when you divide. **quotient**

The answer when you subtract. **difference**

A ratio of two integers where the denominator is not "0". **rational number**

The answer when you add. **sum**

The answer to a multiplication problem. **product**

A symbol, usually a letter, that represents one or more numbers. **variable**

Fifth Grade Builder # 9

Name: _____

Computation: Add and Subtract Decimals

$$\begin{array}{r} 24.6 \\ +\ 12.3 \\ \hline 36.9 \end{array}$$

$$\begin{array}{r} {\scriptstyle 5\ 12} \\ 56.23 \\ -\ 1.53 \\ \hline 54.70 \end{array}$$

Computation: Multiply and Divide Whole Numbers

$$\begin{array}{r} {\scriptstyle 1\ 2} \\ 115 \\ \times\ 25 \\ \hline 575 \\ +\ 2300 \\ \hline 2{,}875 \end{array}$$

$$3\overline{)156}: \quad 52;\ -15;\ 06;\ -6;\ 0$$

Place Value: Whole # Comparisons

Use the inequality symbols **greater than** > , **less than** < and the **equal to sign** = to compare the numbers.

1,569 < 1,695

26,356 > 26,256

896,369 > 896,368

1,356,169,569 = 1,356,169,569

Common Factors/GCF

Find the common factors CF and the greatest common factor GCF.

6- 1, 2, 3, 6

12- 1, 2, 3, 4, 6, 12

CF- 1,2,3,6 GCF- 6

Equivalent Fractions

Generate Equivalent fractions by multiplying the given fraction by one made by using 2's, 3's and 4's!

Remember to use a one!

$\frac{3}{3} = 1$ whole

$\frac{1}{2} \times \frac{2}{2} = \frac{2}{4}$ $\frac{1}{2} \times \frac{3}{3} = \frac{3}{6}$ $\frac{1}{2} \times \frac{4}{4} = \frac{4}{8}$

Mixed/Improper fractions

Change the mixed fraction to an improper fraction.

$2\frac{5}{8} = \frac{21}{8}$

8 x 2 + 5 = 21

$2\frac{5}{8} = \frac{21}{8}$ new numerator / keep denominator

Expressions

GEMDAS

15 + 20 ÷ (7 + 3)

15 + 20 ÷ 10

15 + 2

17

Equations

Remember when you have a number next to the variable (or letter) you have to multiply!

Evaluate the equations when x is equal to 3.

y = 2x

y = 2(3)

y = 6

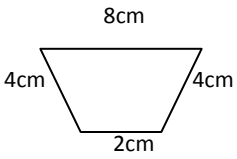
Now you try!

y = 6x

y = 6(3)

y = 18

Perimeter



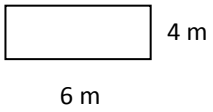
$P = S_1 + S_2 + S_3 + S_4$

P = 2cm + 4cm + 8cm + 4cm +

P = 6cm + 12cm

P = 18cm

Area

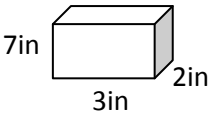


A = l x w

A= (6 m) x (4 m)

A= 24 m^2

Volume



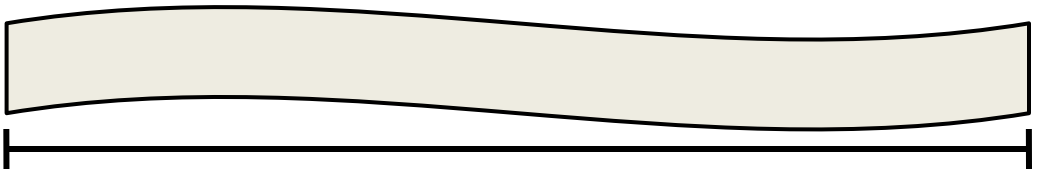
V = l x w x h

V= 3in x 2in x 7in

V= 6in^2 x 7in

V= 42 in^3

Measurement



Use your customary ruler to measure the picture to the nearest inch and your metric ruler to measure to the nearest cm. Round to a whole number.

5 in.

14 cm.

Vocabulary

inequality
less than
greater than
equal to
expression
equation

A mathematical sentence that contains one or more of these symbols <, >, ≤, ≥, or ≠. **inequality**

> **greater than** < **less than** = **equal to**

A mathematical sentence formed by placing an equal sign between two expressions. **equation**

A mathematical phrase containing numbers and operating symbols. **expression**

Fifth Grade Builder # 10

Name: _____

Computation: Add and Subtract Decimals

$$\begin{array}{r} {\scriptstyle 1} \\ 34.6 \\ +\ 16.3 \\ \hline 50.9 \end{array}$$

$$\begin{array}{r} {\scriptstyle 5\ 12} \\ 76.25 \\ -\ 5.33 \\ \hline 70.92 \end{array}$$

Computation: Multiply and Divide Whole Numbers

$$\begin{array}{r} {\scriptstyle 1\ 3} \\ 125 \\ \times\ 16 \\ \hline {\scriptstyle 1}750 \\ +{\scriptstyle 1}1250 \\ \hline 2{,}000 \end{array}$$

$$8\overline{)152} \quad 19$$
$$-\ 8$$
$$72$$
$$-\ 72$$
$$0$$

Place Value: Whole # Comparisons

Use the inequality symbols **greater than** $>$, **less than** $<$ and the **equal to sign** $=$ to compare the numbers.

1,669 < 1,995

36,266 > 26,256

896,368 = 896,368

1,634,169,569 < 2,356,169,569

Common Factors/GCF

Find the common factors CF and the greatest common factor GCF.

8- 1, 2, 4, 8

24- 1, 2, 3, 4, 6, 8, 12, 24

CF- 1, 2, 4, 8 GCF- 8

Equivalent Fractions

Generate Equivalent fractions by multiplying the given fraction by one made by using 2's, 3's and 4's!

Remember to use a one!

$\frac{2}{2} = 1$ whole

$\frac{1}{3} \times \frac{2}{2} = \frac{2}{6}$ $\quad \frac{1}{3} \times \frac{3}{3} = \frac{3}{9}$ $\quad \frac{1}{3} \times \frac{4}{4} = \frac{4}{12}$

Mixed/Improper fractions

Change the mixed fraction to an improper fraction.

$3\frac{2}{3} = \frac{11}{3}$ example

$3 \times 3 + 2 = 11$

$3\frac{2}{3} = \frac{11}{3}$ new numerator / keep denominator

Expressions

GEMDAS

13 + 40 ÷ (6 + 4)

13 + 40 ÷ 10

13 + 4

17

Equations

Remember when you have a number next to the variable (or letter) you have to multiply!

Evaluate the equations when x is equal to 5.

y = 2x

y = 2(5)

y = 10

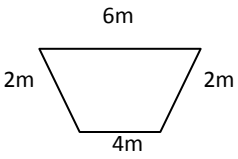
Now you try!

y = 6x

y = 6(5)

y = 30

Perimeter



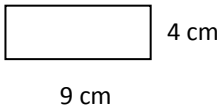
$P = S_1 + S_2 + S_3 + S_4$

P = 4m + 2m + 2 m + 6 m

P = 6 m + 8 m

P = 14 m

Area

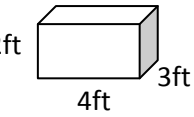


A = l x w

A= (9 cm) x (4 cm)

A= 36 cm^2

Volume



V = l x w x h

V= 4 ft x 3 ft x 2ft

V= 12 ft^2 x 2 ft

V= 24 ft^3

Measurement

Use your customary ruler to measure the picture to the nearest inch and your metric ruler to measure to the nearest cm. Round to a whole number.

3 in.

8 cm.

Vocabulary

area
perimeter
volume
fraction
numerator
denominator

The distance around a figure. **perimeter**

The bottom part of a fraction. **denominator**

The number of square units needed to cover a given surface. **area**

The number of cubic units needed to fill the space inside a 3D figure. **volume**

The top part of a fraction. **numerator**

A number used to name a part of a group or a whole. **fraction**