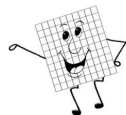Name:_____

## ECS Summer Math Packet-Rising 6th graders

Directions: Please complete the entire packet in pencil (except for triangle coloring) showing all work. We ask that all calculations be done without the use of a calculator This completed work is due on the first day of school (August, 11th, 2021)and will count as a quiz grade for the first quarter.

Decimals

# Decimals Place Value
## Number Form, Expanded Form, Word Form

**Complete the table below.**

| Standard Form | Word Form | Expanded Form |
|---|---|---|
| 12.38 | | |
| | | 40+5+.6+.03 |
| 8.97 | | |
| | one and five hundredths | |
| | | 60+9+.07 |
| 5.77 | | |
| | four and nine tenths | |

**Determine whether the numbers below are written in standard form, word form, or expanded form.**

A) 3.21 _____
B) One and twenty-nine hundredths_____
C) 1.12 _____
D) 50 +.8 _____
E) seventy-five hundredths _____

**Match the numbers on the left to a number on the right.**

A) 7.36      F) Five and fifty-four hundredths
B) 1.9       G) 1.0 + .9
C) 5.54      H) Eight and twelve hundredths
D) 53.9      I)  7.00 + .30 + .06
E) 8.12      J) Fifty-three and nine tenths

Decimals continued.

Example:    954,689 rounded to the nearest 100 is 954,700

Round to the nearest hundred.

1.  89,327 = _____     2.  944 = _____     3.  357,137 = _____

4.  78,965 = _____     5.  9,094 = _____     6.  58,196 = _____


# Adding decimals

Grade  5 Decimals Worksheet

Find the sum.

1.  9.7 + 1.70 = _____     2.  0.41 + 8.3 = _____

3.  0.92 + 1.82 = _____     4.  0.97 + 19.1 = _____


# Subtracting decimals

Grade 5 Decimals Worksheet

Find the difference.

1.  0.95 - 0.71 = _____     2.  0.77 - 0.58 = _____

3.  8.5 - 2.1 = _____     4.  0.80 - 0.18 = _____

2

Decimals continued.

## Subtracting decimals from whole numbers.

Grade 5 Decimals Worksheet

Find the difference.

1. 18 - 0.8 = _____

2. 8 - 0.07 = _____

3. 12 - 1.3 = _____

4. 15 - 1.3 = _____

## Multiplying decimals

Grade 5 Decimals Worksheet

Find the product.

1. 0.9 × 0.7 = _____

2. 0.4 × 0.03 = _____

3. 0.2 × 0.5 = _____

4. 0.5 × 0.6 = _____

## Dividing decimals by whole numbers

Grade 5 Decimals Worksheet

Find the missing quotient:

1) 8.8 ÷ 2 = _____

2) 6.8 ÷ 2 = _____

3) 0.8 ÷ 4 = _____

4) 1.2 ÷ 2 = _____

Decimals Continued.

## Dividing decimals

### Grade 5 Decimals Worksheet

Find the missing quotient:

1) $1.64 \div 0.04 = \rule{2cm}{0.4pt}$

2) $0.30 \div 0.06 = \rule{2cm}{0.4pt}$

3) $0.66 \div 0.03 = \rule{2cm}{0.4pt}$

4) $1.50 \div 0.02 = \rule{2cm}{0.4pt}$

Exponents.

### Grade 5 Exponents Worksheet

Exponent

$$2^3 = 2 \times 2 \times 2$$

Base

Exponents are used to express repeated multiplication of a number.
The exponent tells us how many times the base is multiplied by itself.

*Rewrite the following exponents using repeated multiplication and calculate the value.*

For example, $3^2 = 3 \times 3 = 9$

1.  $4^2$

3.  $3^3$

2.  $2^8$

4.  $5^4$

4

Order of Operations.

Solve the following using PEMDAS

The order of operations:
1. Parentheses ()
2. Exponents $5^2$
3. Multiplication × or Division ÷
4. Addition + or Subtraction −

1.  $3 \times 9 + 7$

6.  $(67 - 18) \div 7 \times 3$

2.  $12 + 36 \div 4$

7.  $5^2 - 8$

3.  $9 \div 3 + 4 \times 6$

8.  $2^3 \times 3^2$

# Classifying Triangles
## Color by sides
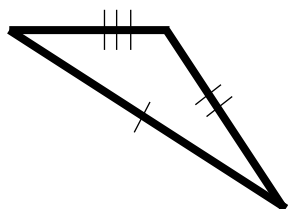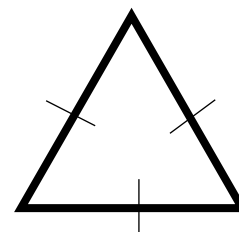
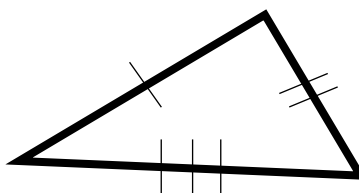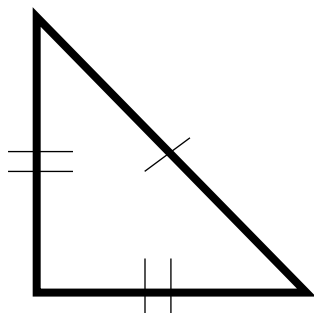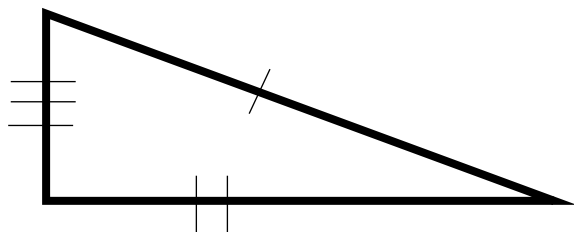Scalene = orange
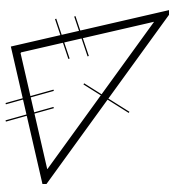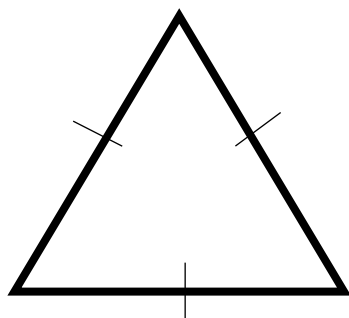A triangle with no equal sides
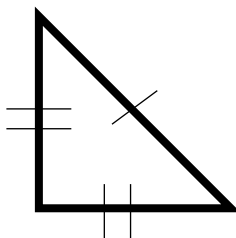
Isosceles = blue
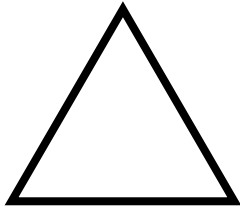A triangle with at least 2 congruent sides
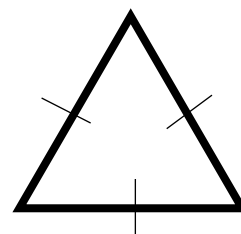
Equilateral = red
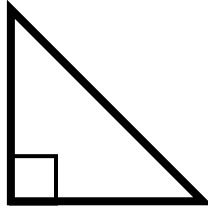A triangle with 3 congruent sides
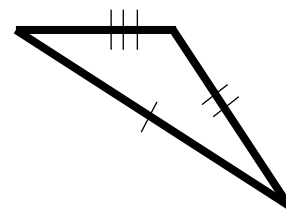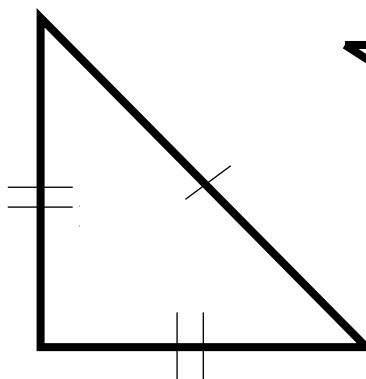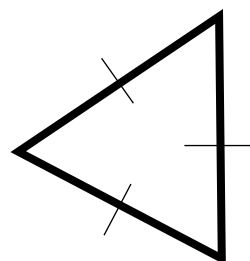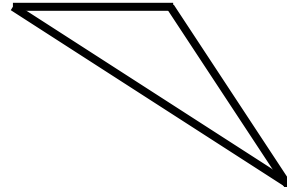
# Classifying Triangles
## Color by angles

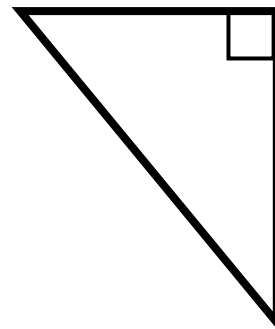### Acute = yellow
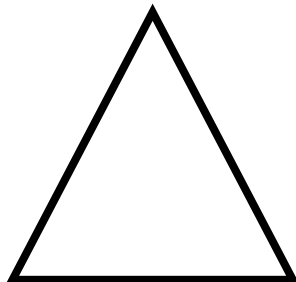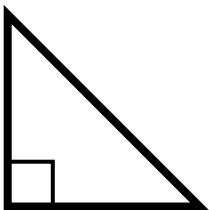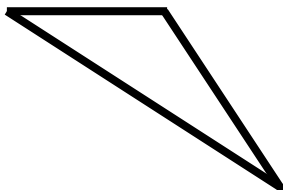A triangle with all angles measuring less than 90°

### Right = pink
A triangle with one angle measuring exactly 90°

### Obtuse = black
A triangle with one angle measuring more than 90°
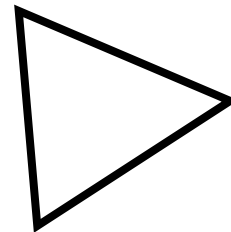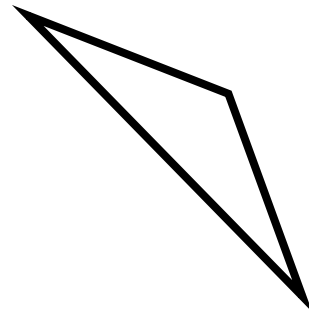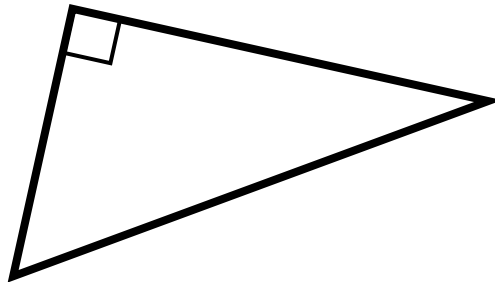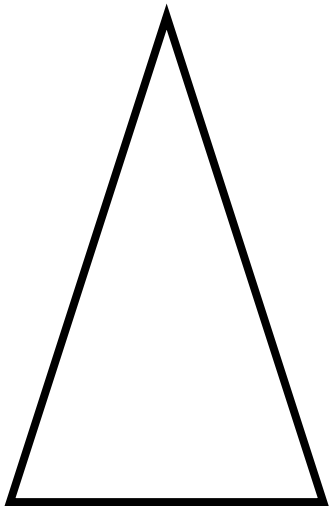
Area and Perimeter.
Perimeter- sum of all sides
Area- Rectangle L x W
Area-Square -Side x Side

## Grade 5 Geometry Worksheet

Find the perimeter and area of each rectangle.

1.

13 ft
54 ft

P=                    A=

2.

12 yd
36 yd

P=                    A=
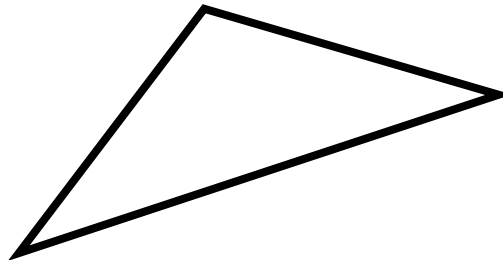
3.

10 yd
24 yd

P=                    A=

4.

14 ft
12 ft

P=                    A=

5.

14 yd
21 yd

P=                    A=

6.

14 in
39 in

P=                    A=

8
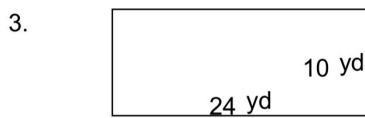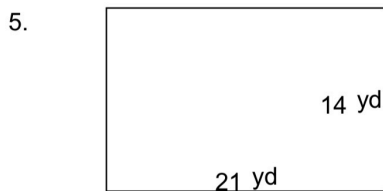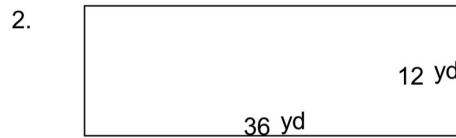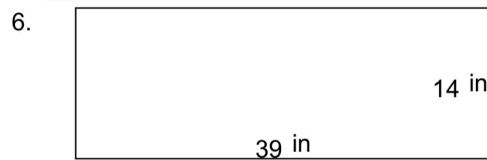
Fractions.

## Adding fractions (like denominators)

Grade 5 Fractions Worksheet

Find the sum.

1. $\frac{3}{4} + \frac{3}{4} =$ _____

2. $\frac{5}{7} + \frac{6}{7} =$ _____

3. $\frac{16}{25} + \frac{12}{25} =$ _____
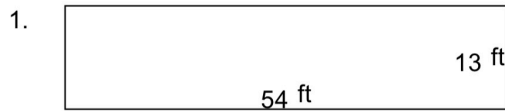
4. $\frac{23}{100} + \frac{54}{100} =$ _____

5. $\frac{6}{9} + \frac{1}{9} =$ _____

6. $\frac{8}{10} + \frac{4}{10} =$ _____

## Adding unlike fractions

Grade 5 Fractions Worksheet

Find the sum.

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

2. $\frac{8}{12} + \frac{8}{11} =$ _____

3. $\frac{2}{7} + \frac{6}{10} =$ _____

4. $\frac{1}{6} + \frac{6}{11} =$ _____

Fractions Continued.

## Subtracting fractions (like denominators)

Grade 5 Fractions Worksheet

Find the difference.

1. $\dfrac{14}{15} - \dfrac{13}{15} =$ _____

2. $\dfrac{6}{9} - \dfrac{5}{9} =$ _____

3. $\dfrac{95}{100} - \dfrac{36}{100} =$ _____

4. $\dfrac{7}{11} - \dfrac{4}{11} =$ _____

5. $\dfrac{30}{50} - \dfrac{22}{50} =$ _____

6. $\dfrac{6}{12} - \dfrac{4}{12} =$ _____

## Subtracting unlike fractions

Grade 5 Fractions Worksheet

Find the difference.

1. $\dfrac{5}{7} - \dfrac{2}{3} =$ _____

2. $\dfrac{2}{3} - \dfrac{3}{8} =$ _____

3. $\dfrac{6}{7} - \dfrac{2}{6} =$ _____

4. $\dfrac{4}{6} - \dfrac{4}{8} =$ _____

Word Problems.

## Estimation word problems

Grade 5 Word Problems Worksheet

*Read and answer each question:*

1. There are about 795 houses in this region. The average family size is 6 people. There are about _____ people living in the region.

   a.    4,800              b.    5,000                c.    5,500

2. In a town, there are 1,349 families. If there are on average two children attending elementary school from each family and each school can accommodate 220 children, the minimum number of elementary schools needed in the region is _____.

   a.    6                     b.    9                        c.    13

## Decimals word problems

Grade 5 Word Problems Worksheets

*Read and answer each question:*

Ashley is making cookies for her office's Christmas party.

1. Each batch of cookie mix need 0.4 cups of sugar, and each batch can make 16 cookies. If Ashley is making 4 batches of cookies, how much sugar does she need?

2. Ashley found 2 boxes of sugar in the kitchen. The green box is 1.26 kg and the red box is 1.026 kg. Which box contains more sugar?