THE MATH OF MY WORLD: SUMMER MATH PROJECT

Welcome to your summer math project! This is not a worksheet or a test. It is a chance to see how math lives all around you—in your home, your neighborhood, and your daily routine.

You will need: **one notebook** (or loose paper stapled together), **a pencil**, and **measuring tape**.

PART 1: THE MATH JOURNAL (ongoing all summer)

In your notebook, keep two investigations going. Do a little bit each week.

Investigation A: The Shape Hunt

Each week, find and sketch 5 real-world shapes in your home.
You must find at least:
• 1 rectangle (door, window, book, tabletop)
• 1 square (tile, picture frame, floor mat)
• 1 triangle (roof line, shelf bracket, a folded napkin)
• 1 circle (clock, plate, coin, lid)

For each shape you find, measure its sides or diameter. For rectangles and squares, write down the length and width, then calculate the perimeter and the area. For triangles, measure all three sides and add them to find the perimeter. (Do not worry about area for triangles or circles)
For circles, measure the distance straight across the middle (diameter). Then multiply that number by 3.14 to find the circumference (the distance around the circle). Sketch the shape and write your calculations right next to it in your journal.

Investigation B: The Daily Routine Clock

Pick 5 days during the summer (they do not have to be in a row).
For each day, write down the exact time you do these five things:
· Wake up
· Eat breakfast
· Eat lunch
· Eat dinner
· Go to bed

For each day, calculate:
· How many hours and minutes pass between breakfast and lunch
· How many hours and minutes pass between lunch and dinner
· How many total hours you were awake
· How many total hours you slept

At the end, make a simple pie chart or circle graph that shows how one of your typical days is divided into sleep, morning, afternoon, and evening.

PART 2: THE BIG SUMMER COUNT (ongoing all summer)

Choose ONE thing from the list below to count and track for the whole summer. Pick whatever is easiest and most interesting for you. You do not need money or technology for any of these.

Option 1: Books
Count how many pages you read in each book. At the end of summer, add up all the pages. Create a bar graph that shows pages per book. Then calculate the average number of pages per book.

Option 2: Meals
Count how many meals you eat each day. For each meal, tally whether it includes a vegetable, a fruit, a grain, or a protein. At the end of summer, calculate the percentage of your meals that included each food group. Make a bar graph or pie chart to show your results.

Option 3: Chores
Count how many times you do a specific chore each week (for example, washing dishes, sweeping, or making your bed). Total up your chores for the whole summer. Then answer this: If you were paid 50 cents per chore, how much money would you have earned?

Write all your counts and calculations clearly in your journal. Show your work so someone else can follow what you did.

PART 3: THE FINAL PRESENTATION (complete by end of summer)

Now it is time to show off what you discovered. Choose ONE of these options:

Option A: Poster
Create a large poster that displays your best graphs, your favorite shape sketches with calculations, and one surprising thing you learned.

Option B: Tri-fold Board
Like a science fair board, organize your work into three sections: one for your 100-stride challenge, one for your shape hunt, and one for your big summer count.

Option C: Video
Record a short video (3 to 5 minutes) where you hold up your journal, explain your favorite investigation, and share what surprised you most about math this summer.

Your final presentation must include:
· At least 3 different graphs (bar, line, or pie)
· At least 2 shape calculations (area, perimeter, or circumference) with sketches
· At least 1 written conclusion that starts with: "What surprised me most about my summer math was..."

WHAT TO TURN IN

When school starts, bring:
1. Your math journal with all your notes, measurements, and calculations (this is the most important part)
2. Your final presentation (poster, board, or video)

Remember: There are no right or wrong answers in this project. The goal is to practice measuring, calculating, graphing, and explaining your thinking—using your own real life. Do your best, have fun with it, and I look forward to seeing what you discover!

Name: _____

Date: _____

Week 1 Day 1

Operations and Algebraic Thinking and Number and Operations in Base Ten (5.OA, 5.NBT)

1. a) Evaluate: (5 + 3) × (6 - 2) b) Evaluate: (9 + 6) × (3 - 1)	2. Choose the expression that means same as: "Five more than three times four" a) (3 + 4) × 5 b) (4 × 3) + 5 c) (3 × 5) + 4 d) (5 × 4) + 3
3. Which expression matches: Take 12, subtract 4, then divide by 2. a) 12 - (4 ÷ 2) b) (12 - 4) ÷ 2 c) (12 ÷ 2) - 4 d) 12 ÷ (4 - 2)	4. Find the rule for this pattern and write the next three numbers: 2, 4, 8, 16, 32, _, _, _
5. Start at 1 and write following patterns: Pattern A: Multiply by 9 _, _ , _, _ Pattern B: Add 10 _, _ , _, _	6. Write following patterns till 4th number: Pattern A: Start at 2 and add 4 each time. Pattern B: Start at 3 and add 6 each time.
7. Fill in the blanks: 4, 10, 16, 22, _ , _ , _ 41, 54, 67, 80, _ , _ , _	8. a) Which is greater: 0.78 or 0.708? Use >, <, or = b) Round 5.794 to the nearest hundredth
9. Equate following: a) 0.673 X 100 = b) 1.842 X 1000 = c) 15.764 X 1/10 =	10. a) Write 8 and 15 thousandths in standard form b) Write 6.08 in word form.

Name: _____

Date: _____

Week 1 Day 2

Number and Operations – Fractions (5.NF.A, 5.NF.B)

1. Mia ran $\frac{3}{8}$ of a mile on Monday and $\frac{5}{12}$ of a mile on Tuesday. How much farther did she run on Tuesday than Monday?	2. Evaluate: a) $3\frac{3}{4} - 1\frac{5}{6}$ = b) $5\frac{3}{8} + 2\frac{1}{4}$
3. Compare the pairs of fractions using <, >, or = $\frac{1}{2} + \frac{2}{3} \bigcirc \frac{5}{6}$ $\frac{1}{4} + \frac{1}{8} \bigcirc \frac{3}{12}$	4. A garden bed is $\frac{2}{3}$ of a yard wide and $\frac{3}{6}$ of a yard long. What is the area of the garden bed?
5. Emma drank $\frac{3}{8}$ of a water bottle. If each bottle holds 16 ounces, how many ounces did she drink?	6. a) $2\frac{1}{2} \times \frac{2}{3}$ = b) $5\frac{1}{2} \times \frac{2}{7}$ =
7. Divide a) $\frac{1}{2} \div 4$ = b) $9 \div \frac{1}{3}$ =	8. a) Is $\frac{3}{4} \times 8$ greater than, less than, or equal to 8? b) Is $\frac{4}{5} \times 9$ greater than, less than, or equal to 9?
9. A half of a cake is divided equally among 3 people. What fraction of the whole cake does each person get?	10. Mia is making a quilt. Each quilt square is a rectangle with a length of $\frac{3}{2}$ foot and a width of $\frac{1}{2}$ foot. a. What is the area of one quilt square in square feet? b. If Mia needs to make 10 quilt squares, what is the total area of all the quilt squares she will make?

Name: _____

Date: _____

Week 1 Day 3

Measurement and Data (5.MD.A, 5.MD.B, 5.MD.C)

1. Convert:

5 feet = _____inches

3 hours and 43 mins= _____ mins

12 ft = _____ inches

15 lb = _____ oz

142 mins = _____ hr

78 mins = _____ sec

2. Convert following:

12,000 mm into _____ m

70 cm into _____ m

64,000 m into _____ km

42 L into _____ ml

520 ml into _____ L

3. A swimming pool has an L-shape(two non-overlapping rectangular volume). Section A: Length = 11 meters, Width = 5 meters, Depth = 2 meters
Section B: Length = 7 meters, Width = 4 meters, Depth = 2 meters. What is total volume of the L-shaped pool?

4. A gift box has a square base with sides of 8 cm each. The height of the box is 10 cm.

a. What is the area of the base of the gift box?

b. Find the volume of the gift box.

5. Two rectangular prisms have following dimensions, one is 2 × 3 × 5, the other is 5 × 2 × 3. Are they the same volume?

6. A cube has a volume of 27 cubic units. What is the length of each side?

7. A toy company ships small blocks in a box. Each block is 1 cubic inch. The box is completely stacked with the blocks. The bottom of the box has 6 rows of 4 blocks. There are 5 layers of blocks in the box. How many cubic inches is the volume of the box?

8. A fish tank is 10 inches long, 7 inches wide, and 9 inches tall. What is its volume?

9. During a nature walk, students measured leaves in inches: $2\frac{1}{2}$,3, $2\frac{3}{4}$, $2\frac{1}{2}$, $3\frac{1}{4}$,3, $2\frac{1}{2}$, $2\frac{3}{4}$, 3, $3\frac{1}{4}$

a. Create a line plot to represent the leaf lengths.
b. How many leaves measured exactly 3 inches?
c. What is the total length of all leaves combined?
d. How many leaves are less than 3 inches long?

Name: _____

Date: _____

Week 1 Day 4

Geometry(5.G.A, 5.G.B)

1. Decide if each statement is True or False.
a. All squares are rectangles.
b. All rectangles are squares.
c. All rhombuses are parallelograms.
d. All parallelograms are rhombuses.
e. All trapezoids have at least one pair of parallel sides.

2. a. A figure with four sides is always a _____.

b. A _____ is a quadrilateral with two pairs of parallel sides.

c. A _____ is a parallelogram with four right angles.
d. A _____ is a parallelogram with four equal sides.
e. A _____ is a rectangle with four equal sides.

3. a) A robot starts at (2, 3) and moves to (2, 8). How many units did the robot travel?

b) A racecar drives from (4, 8) to (9, 8). What's the distance covered?

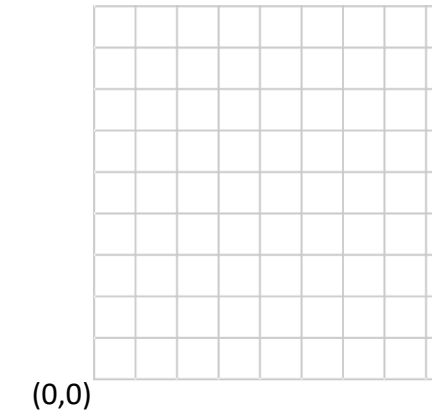
4. a) A ship sails from (1, 4) to (6, 4). How far did it travel in units?

b) A dog is sitting at (5, 2) and its toy is at (5, 7). How many units must the dog move to reach the toy?

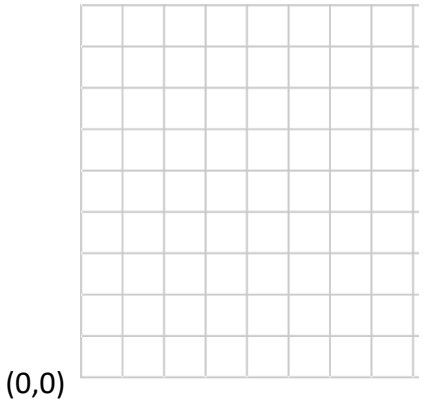
5. A map of Amusement Park uses a coordinate grid. The ticket booth is at (2, 7), the rollercoaster is at (7, 7), the bumper cars are at (7, 2), and the ice cream shop is at (2, 2).

a. Plot these four attractions on a coordinate plane.
b. If you walk from the ticket booth to the Roller Coaster, how many units do you move horizontally?
c. If you walk from the Roller Coaster to the bumper cars, how many units do you move vertically?
d. What shape is formed by connecting these four points in order?

6. Draw a coordinate plane with the x-axis and y-axis. Plot the following points on your coordinate plane:
A (4, 7)
B (1, 6)
C (5, 0)
D (0, 4)



7. Draw a shape with vertices A(1, 2), B(1, 6), C(5, 6), and D(5, 2). What is the length of each side?



Name: _____

Date: _____

Week 1 Day 5

5th Grade Word Problems

1. Sophie used $\frac{3}{4}$ yard of ribbon for one gift and $\frac{1}{2}$ yard for another. She has $3\frac{1}{2}$ yards of ribbon. How much ribbon does she have left after wrapping the gifts?	2. A pizza is cut into 8 equal slices. Ben eats 3/8 of the pizza. How much is left? He shares the remaining slices evenly among 5 friends. How much does each friend get?
3. At the school store, pencils cost $0.65 each and erasers cost $0.45 each. Maya bought 4 pencils and 6 erasers. If she paid with a $10 bill, how much change did she receive?	4. A pizza recipe calls for ¾ cup of cheese. If Tom wants to make ½ of the recipe, how much cheese does he need? Then, if he only has ⅝ cup of cheese available, how much extra cheese will he have after making the recipe?
5. Jake runs $1\frac{1}{4}$ miles each morning and $2\frac{2}{3}$ miles each evening. If he follows this routine for 5 days, what is the total distance he runs?	6. A bag of trail mix weighs 4.8 pounds and costs $12.96. What is the cost per pound? If Emma buys 2.7 pounds of trail mix, how much less does she spend compared to buying the whole bag?
7. At a fruit stand, apples cost $1.25 per pound and oranges cost $0.90 per pound. Mrs. Gomez bought 3.2 pounds of apples and 2.8 pounds of oranges. She gave the cashier $10.00. How much change should she receive?	8. A recipe for cookies makes $2\frac{1}{3}$ dozen cookies and uses $\frac{2}{3}$ cup of sugar. How much sugar is needed per dozen cookies? If you want to make exactly 3 dozen cookies, how much sugar do you need?

Name: _____

Date: _____

Week 2 Day 1

Operations and Algebraic Thinking and Number and Operations in Base Ten (5.OA, 5.NBT)

1. a) Evaluate: (4 + 6) × (7 - 3) b) Evaluate: (10 + 2) × (5 - 2)	2. Choose the expression that means same as: "Six more than two times five" a) (2 + 5) + 6 b) (5 × 2) + 6 c) (6 × 2) + 5 d) (5 + 6) × 2
3. Which expression matches: Take 20, subtract 8, then divide by 4. a) 20 - (8 ÷ 4) b) (20 - 8) ÷ 4 c) (20 ÷ 4) - 8 d) 20 ÷ (8 - 4)	4. Find the rule for this pattern and write the next three numbers: 3, 6, 12, 24, 48, _, _, _
5. Start at 0 and write following patterns: Pattern A: Add 14 _, _ , _, _ Pattern B: Add 9 _, _ , _, _	6. Write following patterns till 4th number: Pattern A: Start at 5 and add 3 each time. Pattern B: Start at 4 and add 8 each time.
7. Fill in the blanks: 6, 12, 18, 24, _ , _ , _ 33, 44, 55, 66, _ , _ , _	8. a) Which is greater: 0.645 or 0.654? Use >, <, or = b) Round 7.986 to the nearest hundredth
9. Equate following: a) 0.582 X 100 = b) 3.515 X 1000 = c) 27.866 X 1/10 =	10. a) Write 9 and 28 thousandths in standard form b) Write 4.68 in word form.

Name: _____

Date: _____

Week 2 Day 2

Number and Operations – Fractions (5.NF.A, 5.NF.B)

1. Ava read $\frac{3}{4}$ of a book on Wednesday and $\frac{5}{8}$ of the same book on Thursday. How much more of the book did she read on Wednesday than on Thursday?	2. Evaluate: a) $2\frac{1}{7} - 1\frac{2}{9} =$ b) $9\frac{1}{3} - 4\frac{6}{10} =$
3. Compare the pairs of fractions using <, >, or = $\frac{3}{6} + \frac{4}{2} \bigcirc \frac{15}{6}$ $\frac{2}{8} + \frac{2}{16} \bigcirc \frac{6}{24}$	4. A painter is painting a rectangular wall that is $\frac{5}{6}$ feet tall and $\frac{1}{5}$ feet wide. What is the area of the wall being painted?
5. A carpenter has 8 feet of wood. How many pieces can he cut if each piece is 1/3 foot long?	6. a) $4\frac{3}{2} \times \frac{2}{6} =$ b) $2\frac{4}{8} \times \frac{8}{12} =$
7. Divide a) $\frac{1}{3} \div 9 =$ b) $6 \div \frac{1}{2} =$	8. a) Is $\frac{4}{16} \times 8$ greater than, less than, or equal to 8? b) Is $\frac{4}{5} \times 6$ greater than, less than, or equal to 6?
9. If $\frac{1}{2}$ pound of trail mix is shared equally among 4 hikers, how much trail mix will each hiker get?	10. Each box has a rectangular base with a length of $\frac{9}{5}$ feet and a width of $\frac{3}{4}$ feet. **a.** What is the area of one garden box base? **b.** If he builds 5 boxes, what is the total area he covers?

Name: _____

Date: _____

Week 2 Day 3

Measurement and Data (5.MD.A, 5.MD.B, 5.MD.C)

1. Convert:

15 feet = _____inches

4 hours and 15 mins= _____ mins

124 ft = _____ inches

21 lb = _____ oz

367 mins = _____ hr

67 mins = _____ sec

2. Convert following:

23 mm into _____ m

780 cm into _____ m

8.5 m into _____ km

4.6 L into _____ ml

9.6 ml into _____ L

3. A jewelry box has a square base with sides of 8 inches each. The height of the box is 3 inches. a. What is the area of the base of the jewelry box? b. Find the volume of the jewelry box.

4. Two shipping containers have the following dimensions: Container A is 5 × 8 × 12 feet, Container B is 12 × 8 × 5 feet. Do they have the same volume?

5. A storage cube has a volume of 64 cubic feet. What is the length of each side?

6. A chocolate company fills boxes with small cubic chocolates. Each chocolate is 1 cubic unit. The box bottom has 6 rows of 11 chocolates, and there are 3 layers. What is the total volume of the box?

7. A community center has an L-shaped building made of two rectangular sections. Section A: Length = 20 feet, Width = 8 feet, Height = 12 feet. Section B: Length = 15 feet, Width = 6 feet, Height = 12 feet. What is the total volume of the L-shaped building?

8. A classroom aquarium is 36 inches long, 15 inches wide, and 20 inches tall. What volume of water can it hold?

9. A group of students measured the length of their pencils: $1\frac{1}{2}$, $1\frac{3}{4}$, $1\frac{1}{2}$, 2, $1\frac{1}{4}$, $1\frac{1}{2}$, $1\frac{3}{4}$, 2, $1\frac{1}{2}$, $1\frac{1}{4}$

a. Make a line plot to represent the length of the pencils.

b. How many pencils are $1\frac{1}{2}$ inches tall?

c. What is the total length of all the pencils if they were stacked on top of each other?

d. If the students wanted to select all pencils that were at least $1\frac{3}{4}$ inches tall, how many pencils would that be?

Name: _____

Date: _____

Week 2 Day 4
Geometry(5.G.A and 5.G.B)

1. Decide if each statement is True or False.
a. All parallelograms are rectangles
b. All squares are rectangles
c. All trapezoids are rhombuses
d. All rectangles are squares

2. a. A figure with four sides is always a _____.
b. A _____ is a quadrilateral with opposite sides that are equal and parallel.
c. A _____ is a parallelogram with four right angles.
d. A _____ is a parallelogram with four equal sides.
e. A _____ is a rectangle with four equal sides.

3. Plot and label these points: A(2, 1), B(2, 5), C(6, 5), D(6, 1)
a) What shape is quadrilateral ABCD?
b) What are its side lengths?

(0,0)

4. a) A boat goes from (1, 5) to (9, 5). How far did it travel in units?

b) A cat is sitting at (6, 2) and its toy is at (6, 10). How many units must the cat move to reach the toy?

5. A map of a park uses a coordinate grid.
The playground is at (2, 5)
The picnic area is at (6, 5)
The fountain is at (6, 2)
The pond is at (2, 2)

a) Plot these points.
b) What shape is formed when you connect them in order?
c) What is the perimeter of the area enclosed?

(0,0)

6. Draw a coordinate plane with the x-axis and y-axis. Label the origin (0,0). Plot the following points on your coordinate plane:
A (5, 8)
B (4, 6)
C (6, 1)
D (1, 5)

0,0

7. Draw a shape with vertices: A(2, 3), B(2, 8), C(7, 8), D(7, 3)
a) What is the length of each side?
b) What is the perimeter of the shape?

0,0

Name: _____

Date: _____

Week 2 Day 5

5th Grade Word Problems

1. Sophie is making fruit salad. She uses $\frac{3}{4}$ cup of strawberries, $\frac{1}{2}$ cup of blueberries, and $\frac{5}{8}$ cup of grapes. If she wants to triple the recipe, how many cups of fruit will she use in total?	2. A carpenter needs to cut boards for a project. He cuts three pieces: $3\frac{1}{4}$ feet, $3\frac{5}{8}$ feet, and $2\frac{3}{4}$ feet. How many feet of wood does he cut in total?
3. A water tank holds 45.6 gallons when full. After using water for 3 days, 28.8 gallons remain. If the same amount of water was used each day, how much water was used per day?	4. A rope is $12\frac{1}{2}$ feet long. It needs to be cut into pieces that are each $2\frac{1}{2}$ feet long. How many complete pieces can be made?
5. Movie tickets cost $8.50 for adults and $6.25 for children. The Smith family bought 2 adult tickets and 3 child tickets. If they paid with $50, how much change did they receive?	6. A recipe calls for $1\frac{1}{3}$ cups of flour, $\frac{3}{4}$ cup of sugar, and $\frac{1}{2}$ cup of butter. What is the total amount of dry ingredients? If you want to make $\frac{1}{4}$ of the recipe, how much flour do you need?
7. Max had $8\frac{1}{2}$ pounds of clay. He used 2¾ pounds for one project and $1\frac{5}{8}$ pounds for another. If he wants to divide the remaining clay equally among 3 students, how much clay will each student get?	8. Gas costs $3.45 per gallon. Sarah bought 12.8 gallons on Monday and 9.6 gallons on Friday. What was her total cost for gas that week? What was her average cost per day if she only bought gas those two days?

Name: _____

Date: _____

Week 3 Day 1

Operations and Algebraic Thinking and Number and Operations in Base Ten (5.OA, 5.NBT)

1. a) Evaluate: (8 + 11) × (9 - 4) b) Evaluate: (14 - 2) × (7 - 2)	2. Choose the expression that means same as: "Seven less than three times four" a) (3 + 4) - 7 b) (3 × 4) - 7 c) (7 × 3) - 4 d) (7 - 3) × 4
3. Which expression matches: Take 10, add 8, then divide by 3. a) 10 + (8 ÷ 3) b) (10 + 8) ÷ 3 c) (10 ÷ 3) + 8 d) 10 ÷ (8 + 3)	4. Find the rule for this pattern and write the next three numbers: 3, 12, 48, 192, _, _, _
5. Start at 0 and write following patterns: Pattern A: Add 6 _, _ , _, _ Pattern B: Add 11 _, _ , _, _	6. Write following patterns till 4th number: Pattern A: Start at 7 and add 4 each time. Pattern B: Start at 9 and add 11 each time.
7. Fill in the blanks: 3, 9, 27, 81, _ , _ , _ 5, 15, 45, _ , _ , _	8. a) Which is greater: 0.853 or 0.835? Use >, <, or = b) Round 12.977 to the nearest hundredth
9. Equate following: a) 0.759 X 100 = b) 6.361 X 1000 = c) 89.598 X 1/10 =	10. a) Write 11 and 25 thousandths in standard form b) Write 6.94 in word form.

Name: _____

Date: _____

Week 3 Day 2

Number and Operations – Fractions (5.NF.A, 5.NF.B)

1. A fourth of a bag of chips is split equally between 5 people. What fraction of the whole bag does each person receive?	2. Evaluate: a) $5\frac{7}{8} - 3\frac{4}{5} =$ b) $4\frac{1}{3} - 3\frac{5}{7} =$
3. Compare the pairs of fractions using <, >, or = $\frac{1}{4} + \frac{1}{2} \bigcirc \frac{7}{8}$ $\frac{2}{5} + \frac{1}{10} \bigcirc \frac{3}{4}$	4. A rectangular garden has a length of $5\frac{1}{2}$ feet and a width of $2\frac{2}{3}$ feet. What is the area of the garden?
5. A rope is $6\frac{3}{4}$ feet long. If you cut it into pieces that are each $1\frac{1}{2}$ feet long, how many pieces will you have?	6. a) $6\frac{2}{3} \times \frac{1}{9} =$ b) $2\frac{4}{8} \times \frac{2}{5} =$
7. Divide a) $\frac{1}{6} \div 3 =$ b) $5 \div \frac{1}{3} =$	8. a) Is $\frac{4}{3} \times 20$ greater than, less than, or equal to 20? b) Is $\frac{4}{5} \times 8$ greater than, less than, or equal to 8?
9. Jake walked $2\frac{1}{2}$ miles to school and $1\frac{3}{4}$ miles to the library after school. What is the total distance Jake walked?	10. Tyler is tiling a hallway with rectangular tiles. Each tile is $\frac{3}{2}$ feet long and $\frac{2}{3}$ feet wide. a. What is the area of one tile in square feet? b. If he uses 20 tiles, what is the total area covered?

Name: _____

Date: _____

Week 3 Day 3

Measurement and Data (5.MD.A, 5.MD.B, 5.MD.C)

1. Convert:

31 feet = _____inches

2 hours and 15 mins= _____ mins

16 ft = _____ inches

20 lb = _____ oz

227 mins = _____ hr

90 mins = _____ sec

2. Convert following:

250 mm into _____ m

15 cm into _____ m

850 m into _____ km

1.4 L into _____ ml

7.5 ml into _____ L

3. A puzzle cube is exactly 125 cubic inches. Find the measurement of each side.

4. A square planter box has a base with sides of 18 inches each and a height of 6 inches.

a. Find the area of the base of the planter.

b. Calculate the volume of soil the planter can hold.

5. A bakery has two different cake pans. Pan A measures 9 × 12 × 3 inches, Pan B measures 6 × 18 × 3 inches. Which pan holds more batter, or do they hold the same amount?

6. A shipping crate measures 4 feet long, 3 feet wide, and 5 feet tall. Find its volume in cubic feet.

7. Building blocks are packed in a rectangular box. Each block is 1 cubic inch. The bottom of the box has 12 rows of 8 blocks. The box is filled with 5 complete layers. How many cubic inches is the volume of the box?

8. A warehouse consists of two connected rectangular storage areas. The main area is 25 meters long, 18 meters wide, and 10 meters high. The smaller area is 12 meters long, 11 meters wide, and 10 meters high. Find the total storage volume.

9. A science experiment required measuring straw lengths in inches: 5 ¼, 5 ½, 5, 5 ¼, 5 ¾, 5 ½, 5, 5 ¼, 5 ½

a. Make a line plot for the straw length data.
b. Which straw length occurs most often?
c. Find the sum of all straw lengths.
d. How many straws are at least 5 ½ inches long?

Name: _____

Date: _____

Week 3 Day 4
Geometry(5.G.A and 5.G.B)

1. Which quadrilateral shape is this?
- Four sides
- Exactly one pair of parallel sides
- Angles can be any measure

2. Which of the following is true?
A) All rectangles are squares
B) All squares are parallelograms
C) All trapezoids have two pairs of parallel sides
D) All rhombuses have right angles

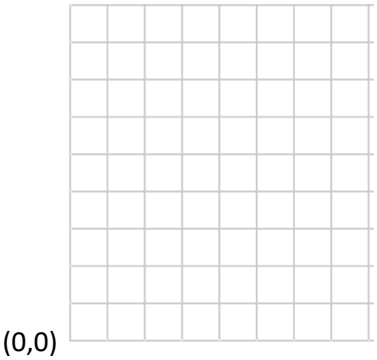
3. Graph these points: P(1, 1), Q(1, 5), R(5, 5), S(5, 1)
a) What figure do these points form?
b) What are the side lengths?

4. a) A plane flies from (1, 5) to (5, 5). How far did it fly?

b) A squirrel climbs from (6, 2) to (6, 7). What is the distance climbed?

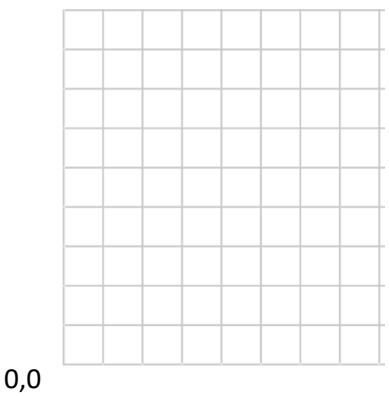
4. Mall Directory Map
The Food Court is at (4, 8)
The Cinema is at (7, 8)
The Clothing Store is at (4, 4)
The Toy Store is at (7, 4)

a) Plot the stores on a grid.
b) What shape is formed?
c) How far apart are the Food Court and Clothing Store?



6. Draw a coordinate plane with the x-axis and y-axis. Label the origin (0,0). Plot the following points on your coordinate plane:
A (8, 3)
B (1, 5)
C (7, 2)
D (1, 8)

7. Draw a figure with these coordinates:
M(3, 2), N(3, 7), O(7, 7), P(7, 2)
a) What kind of quadrilateral is this?
b) How long is each side?



Name: _____

Date: _____

Week 3 Day 5

5th Grade Word Problems

1. A garden plot is ¾ acre. Zoey plants vegetables on ⅖ of the plot and flowers on ¼ of the plot. How much of the plot is planted? How much remains unplanted?	2. Three friends go running. Noah runs 3¼ miles, Amelia runs 2⅝ miles, and Hazel runs 4½ miles. What is their combined distance?
3. At the bakery, muffins cost $2.25 each and cookies cost $1.75 each. Mrs. Park bought 6 muffins and 8 cookies for a school event. She also left a $3.50 tip. What was her total cost?	4. A fabric store sells ribbon by the yard. Emma bought 4⅔ yards of red ribbon and 3¼ yards of blue ribbon. If ribbon costs $2.50 per yard, how much did she spend? If she paid with $25, how much change did she get?
5. A painter mixes colors for a mural. She uses ¾ cup of red paint, ⅝ cup of blue paint, and ½ cup of yellow paint. If her paint container holds 2¼ cups, how much space is left in the container after mixing these colors?	6. A rain gauge collected 8.4 inches of rain over 6 days. The first day had 2.7 inches and the second day had 1.8 inches. If the remaining rain was distributed equally over the last 4 days, how much rain fell each of those days?
7. A recipe for pancakes serves 8 people and uses 3⅔ cups of flour. How much flour is needed per person? If you want to make pancakes for 14 people, how much flour do you need?	8. A carpenter is building a bookshelf with 4 shelves. Each shelf needs a board that is 2¾ feet long and two support brackets that are each ⅝ feet long. What is the total length of wood needed for all shelves and brackets?