ANIMAL STORY EXTENSIONS MENU

Write a first-person story in which the main character is an animal who tries to live with humans.	Do a research study about an organization that is working to save endangered animals from extinction. Plan a campaign to save an animal you admire.	Read 10 or more poems about animals. Write poetry about animals that interest you.
Read about people who have tamed and lived with wild animals. Describe the characteristics such people have in common.	**Student Choice**	Plan and present a debate about the merits of preserving a certain area for the use of its existing animals and plants. The other side of the debate would give reasons to develop the area into homes or shopping.
Pretend you're an archaeologist who has just discovered the remains of an extinct animal. Share information about how the animal lived, why it became extinct, and how it might have been saved from extinction.	Imagine that your family acquires an unusual animal as a pet. Present information about some of the joys and challenges of having the animal.	Create a composite animal with elements of several animals. Convince someone else that it's the best animal in the world.

6th Grade Math- Enrichment Geometry Project
Due by Friday February 2nd.

You will need to review the project below to complete by Friday, February 2nd. They will be required to follow the exact instructions/directions for the project. Please take pride in the entire process and complete your project on time!

Life in a Geometrical Town

Materials Needed (but not limited to the following):
   Pencil, notebook paper, ruler, crayons, markers, colored pencils, glue, construction Paper, poster board, large construction paper or foam board.

Directions:
Before creating your final project, make a rough draft of your map on notebook paper. Use the rough draft to sketch out where things will go on your final map.

1. Draw 3 parallel roads, and name them. (The names can be real or made up.) Use a ruler to draw all of your lines.
2. Draw 2 roads/streets that intersect to form an obtuse angle, and name these roads.
3. Draw 2 roads/streets that intersect to form an acute angle. Name these roads.
4. Take a sheet of construction paper. You will create 10 different shapes to cut out and glue onto your poster board. (hint…2-D)
5. The shapes you have cut out are the buildings in your town. Each building needs to have a name with a math term. (Ex: Triangle Bank, Pentagon Market, Octagon Police Station, etc..)
6. In the bottom left hand corner, draw a park that is in the shape of a square. In the square draw a small circle sandbox, a rectangle swimming pool, a round pond, and a picnic table that is a right triangle.
7. Pick 5 other things to put on your map. Some possibilities are, but not limited to:
   - Swings
   - Extra Roads
   - Cars & Trucks on roads
   - Traffic Signs
   - A railroad
   - A bus station
   - A river
   - Extra building
8. Use crayons, markers, or colored pencils to make your map colorful & attractive.
9. Give your town a name & write it at the top.

Requirement	Points	Your Points
Draw 3 parallel roads, and name them. (The names can be real or made up.) Use a ruler to draw all of your lines	10	
Draw 2 roads/streets that intersect to form an obtuse angle, and name these roads.	10	
Draw 2 roads/streets that intersect to form an acute angle. Name these roads.	10	
Take a sheet of construction paper. You will create 10 different shapes to cut out and glue onto your poster board. (hint…2-D)	10	
The shapes you have cut out are the buildings in your town. Each building needs to have a name with a math term. (Ex: Triangle Bank, Pentagon Market, Octagon Police Station, etc.)	10	
In the bottom left hand corner, draw a park that is in the shape of a square (3 points). In the square draw a small circle sandbox (3 pts.), a rectangle swimming pool (3 pts.), a round pond (3 pts.), and a picnic table that is a right triangle (3 pts.).	15	
Pick 5 other things to put on your map. Some possibilities are, but not limited to (3 points each): • Swings • Extra Roads • Cars & Trucks on roads • Traffic Signs • A railroad • A bus station • A river • Extra building	15	
Use crayons, markers, or colored pencils to make your map colorful & attractive.	10	
Give your town a name & write it at the top.	10	
Total:	100	_____

Name _____

Adding Fractions with Unlike Denominators

Find each sum. Simplify if necessary.

1. $\frac{2}{9} + \frac{1}{3}$ _____

2. $\frac{1}{7} + \frac{3}{21}$ _____

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

4. $\frac{1}{4} + \frac{2}{3}$ _____

5. $\frac{1}{12} + \frac{4}{6}$ _____

6. $\frac{1}{2} + \frac{3}{5}$ _____

7. $\frac{1}{6} + \frac{5}{12}$ _____

8. $\frac{4}{6} + \frac{1}{3}$ _____

9. $\frac{2}{5} + \frac{1}{8}$ _____

10. $\frac{3}{4} + \frac{4}{5}$ _____

11. $\frac{11}{12} + \frac{1}{3}$ _____

12. $\frac{4}{8} + \frac{1}{2}$ _____

Jeremy collected nickels for one week. He is making stacks of his nickels to determine how many he has. The thickness of one nickel is $\frac{1}{16}$ in.

13. How tall is a stack of 16 nickels?

_____

14. What is the combined height of 3 nickels, 2 nickels, and 1 nickel?

_____

15. **Number Sense** Which fraction is greatest?

A $\frac{5}{6}$ B $\frac{7}{9}$ C $\frac{2}{3}$ D $\frac{9}{12}$

16. **Explain It** Which equivalent fraction would you have to use in order to add $\frac{3}{5}$ to $\frac{21}{25}$?

_____

Subtracting Fractions with Unlike Denominators

Find the difference. Simplify if necessary.

1. $\frac{10}{12} - \frac{1}{4}$ _____

2. $\frac{9}{10} - \frac{3}{5}$ _____

3. $\frac{7}{8} - \frac{2}{6}$ _____

4. $\frac{7}{12} - \frac{1}{4}$ _____

5. $\frac{4}{5} - \frac{1}{3}$ _____

6. $\frac{2}{3} - \frac{1}{6}$ _____

7. $\frac{4}{8} - \frac{1}{4}$ _____

8. $\frac{4}{10} - \frac{1}{5}$ _____

9. $\frac{7}{9} - \frac{2}{3}$ _____

10. $\frac{9}{15} - \frac{1}{3}$ _____

11. $\frac{4}{12} - \frac{1}{6}$ _____

12. $\frac{14}{20} - \frac{3}{5}$ _____

13. The pet shop owner told Jean to fill her new fish tank $\frac{3}{4}$ full with water. Jean filled it $\frac{9}{12}$ full. What fraction of the tank does Jean still need to fill?

_____

14. Paul's dad made a turkey pot pie for dinner on Wednesday. The family ate $\frac{4}{8}$ of the pie. On Thursday after school, Paul ate $\frac{2}{16}$ of the pie for a snack. What fraction of the pie remained?

_____

15. **Algebra** Gracie read 150 pages of a book she got for her birthday. The book is 227 pages long. Which equation shows how to find the amount she still needs to read to finish the story?

   A $150 - n = 227$ C $n - 150 = 227$

   B $227 + 150 = n$ D $n + 150 = 227$

16. **Explain It** Why do fractions need to have a common denominator before you add or subtract them?

_____

_____

_____

Adding Mixed Numbers

Estimate the sum first. Then add. Simplify if necessary.

1. $7\frac{2}{3} + 8\frac{5}{6}$ _____

2. $4\frac{3}{4} + 2\frac{2}{5}$ _____

3. $11\frac{9}{10} + 3\frac{1}{20}$ _____

4. $7\frac{6}{7} + 5\frac{2}{7}$ _____

5. $5\frac{8}{9} + 3\frac{1}{2}$ _____

6. $21\frac{11}{12} + 17\frac{2}{3}$ _____

7. **Number Sense** Write two mixed numbers with a sum of 3.

_____

8. What is the total measure of an average man's brain and heart in kilograms?

Vital Organ Measures

Average woman's brain	$1\frac{3}{10}$ kg	$2\frac{4}{5}$ lb
Average man's brain	$1\frac{2}{5}$ kg	3 lb
Average human heart	$\frac{3}{10}$ kg	$\frac{7}{10}$ lb

_____

9. What is the total weight of an average woman's brain and heart in pounds? _____

10. What is the sum of the measures of an average man's brain and an average woman's brain in kilograms? _____

11. Which is a good comparison of the estimated sum and the actual sum of $7\frac{7}{8} + 2\frac{11}{12}$?

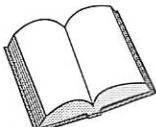   A Estimated $<$ actual

    C Actual $>$ estimated

    B Actual $=$ estimated

    D Estimated $>$ actual

12. **Explain It** Can the sum of two mixed numbers be equal to 2? Explain why or why not.

_____

_____

1. Basic Facts

8 x 3 =	13 – 8 =	9 – 4 =	6 x 9 =	81 ÷ 9 =
9 – 7 =	24 ÷ 4 =	7 x 9 =	9 x 8 =	45 ÷ 9 =
0 ÷ 3 =	8 x 5 =	9 + 6 =	8 x 9 =	18 ÷ 9 =

2. Algorithms

$5000.00 + 416.87	$200.00 – 46.45	370 x 9	7)504	4 lbs 7 oz + 3 lbs 15 oz

3. Estimating Rounding

Round to the nearest thousand to estimate the answers.

82,460 acres + 3,982 acres is about _____ thousand acres.

24,980 fish – 1,072 fish is about _____ thousand fish.

4. Story Problems

Jim, Jan, and Joe shared 324 sheets of colored paper equally. Joe wants to use the paper for a 150 page book. How many more sheets does he need?

5. Equivalent Fractions

Simplify to lowest terms.

$\frac{6}{9}$ = ☐ $\frac{4}{20}$ = ☐ $\frac{12}{16}$ = ☐ $\frac{9}{27}$ = ☐ $\frac{19}{19}$ = ☐

6. Vocabulary Concepts Facts

Know and Spell
thermometer
temperature
yards
feet
factors
sums

A. What is the product of 6 and 8? _____

B. What is the sum of 6 and 8? _____

C. Kitchen cabinets are about three _____ tall.

D. 98.6°F is normal body _____.

E. 1, 2, 3, and 6 are _____ of 6.

7. Fractional Parts

$\frac{1}{4}$ of 28 $\frac{1}{7}$ of 700 $\frac{2}{5}$ of 15 $\frac{2}{7}$ of 700 $\frac{2}{3}$ of 30

8. Place Value Numeration

A. What is one less than 100,000? _____

B. Write twenty-four million. _____

C. Complete this. 64,250 = _____

D. Write a 6-digit number with a 9 in the thousands place. _____

E. Write the largest 8-digit number. _____

9. Other Important Topics

30 in | 18 in

A. Perimeter means the total distance (around, across).

B. What is the perimeter of this exercise mat? _____

C. How many feet is that? _____

D. To find the perimeter, add the lengths of all the _____.

E. The opposite sides of the mat are (equal, different) lengths.

10. Rulers

A is at _____. B is at _____. C is at _____. D is at _____. Put E at $33\frac{7}{8}$.

↓A   ↓B   ↓C   ↓D

30   31   32   33   34