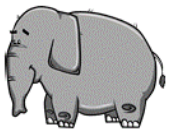
Name_____



Math Challenge
Parched Pachyderms

Elephants are the largest land mammal in the world. On average, an adult elephant drinks 50 gallons of water a day. That's a lot of bathtubs! If a regular water bottle holds 16 ounces, how many bottles would one elephant drink in one day?

Show your work in the box below.

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Name_____

Animal Enclosures

Each of these five animals (Clipper, Millie, Harold, Leo) live in a different shaped enclosure (pentagon, rectangle, rhombus, octagon) at the zoo. Use the clues below to determine the name of each animal and the shape of the enclosure they live in.

5. Millie's enclosure has four straight sides that are equal in length.
6. Harold's enclosure has five sides and five angles.
7. The gorilla lives in an octagon.









The fox's name is _____. Her enclosure is a(n) _____.
The lion's name is _____. His enclosure is a(n) _____.
The zebra's name is _____. Her enclosure is a(n) _____.
The gorilla's name is _____. His enclosure is a(n) _____.

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Math Challenges & Brainteasers with animal facts and themes including: frogs, whales, worms, seahorses, crabs, ostriches, elephants, alligators, snails, chickens, narwhals, penguins, & octopuses

Print & Go PDF

Name

Zoo Map #2

Complete the missing boxes in the table below. Then **draw and label** each animal's habitat on the zoo map. Every habitat will fit on the map.

Animal Habitat	Area	Perimeter	Length	Width
Penguins	20 sq. units	18 units	5 units	4 units
Bats	21 sq. units	20 units	3 units	7 units
Monkeys	24 sq. units	28 units	12 units	2 units
Brown Bears	20 sq. units	24 units	10 units	2 units
Frogs	6 sq. units	14 units	6 units	1 unit
Foxes	25 sq. units	20 units	5 units	5 units

Zoo Map

BATS

+ Google Slides versions



13 Math Challenges

Name_____



Math Challenge
FlyFest

Frank, Floyd, Francine, and Flora are speckled frogs, who are sitting on speckled logs, eating the most delicious Flies. Altogether the four Frogs ate 100 Flies. Use the clues below to determine how many Flies each Frog ate.

Clue #1: Floyd and Francine ate 40 Flies altogether.
Clue #2: Frank ate 22 more Flies than Flora.
Clue #3: Francine ate 8 more Flies than Floyd.

Show your work in the box below.

Name_____



Math Challenge
Whale Whistles

Did you know that the blue whale makes a whistling sound that is the loudest of any animal? This call can be heard from over 800 kilometers (almost 500 miles) away by other blue whales! Sound is measured in decibels. A whisper measures 30 decibels while a jet taking off measures 140 decibels. Use the clues below to determine how many decibels the blue whale's whistle measures.

Clue #1: I am a three-digit even number.
Clue #2: The sum of my digits is 17.
Clue #3: The digit in my ones place is seven more than the digit in the hundreds place.

Use the box below to show your work.

Name_____



Math Challenge
Bookworm

Wendel the bookworm has read a ton of books! Use the clues below to determine how many books Wendel has read.

Clue #1: I am a four-digit number.
Clue #2: The sum of my digits is 10.
Clue #3: The digit in my ones place is two more than the digit in my thousands place.
Clue #4: The digit in my tens place is two less than the digit in my hundreds place.
Clue #5: I am greater than 2,500.

Use the box below to show your work.

Name_____



Math Challenge
Legs & Tails

At the aquarium there is an exhibit of crabs and an exhibit of seahorses. Crabs are decapods. That means they have ten legs (including the front claws). Seahorses have zero legs, but they do have one tail. Use the clues below to determine how many crabs and seahorses are in the exhibits.

Clue #1: Crabs and seahorses have two eyes.
Clue #2: If I count all the eyes in the exhibits I will count 50 eyes.
Clue #3: If I count all the legs in the exhibits I will count 100 legs.

Show your work in the box below.

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Name_____



Math Challenge
Ostrich Eggs

Did you know the ostrich lays the largest eggs of any bird? An average ostrich egg is as big as a cantaloupe and weighs as much as two dozen chicken eggs! If one chicken egg weighs 2 ounces, **how many pounds** does one ostrich egg weigh?

Show your work in the box below.

Name_____



Math Challenge
Pachyde

...mal in the ... average, an adult ...day. That ... water to fill a bath ... many water ...

Show ... in the box below.

Name_____



Math Challenge
Going on Safari

Adam is heading out for a day on an African Safari. He has time to see three types of animals. Adam's guide says there are lions, giraffes, zebras, elephants, gorillas, and crocodiles he can see. If Adam can choose only 3 animals to see today, how many different combinations of animals does he have to choose from?

Find an organized way to show **all possible combinations** and the answer in the box below.

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Name_____



Math Challenge
Feeding the Animals

Harry fed the animals at the zoo. You can buy grain to feed birds for $0.25, lettuce to feed the giraffes for $1.25, or pellets to feed the deer for $0.75. Harry fed each animal at least one time. Use the clues below to determine how many times Harry fed each animal.

Clue #1: Harry spent exactly $5.00 feeding the animals.
Clue #2: Harry paid for six animal feedings.
Clue #3: Harry fed the birds more times than he fed the deer.

Show your work in the box below.

Name_____



Math Challenge
...igat...

...

...in the box ...

Name_____



Math Challenge
Scrambled Eggs

Clucky's eggs are all mixed up! Divide the eggs equally into two nests so the sum of their numbers is equal in both.

What is the sum in each nest? _____

Use the box below to show your work.

2 7 1 11 4 12 3 10

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Name_____



Math Challenge
Old MacDonald had Two Barns

Old MacDonald had two barns. He divided the cows, horses, and pigs on his farm equally between the two barns. Use the clues below to determine how many animals are in each barn.

Clue #1: There are 4 adult cows.
Clue #2: For every adult cow there are 3 baby cows.
Clue #3: There are twice the number of horses as there are cows.
Clue #4: There are half the number of pigs as there are cows.

Show your work in the box below.

Name_____



Math Challenge
A Snail's Pace

...e of the slowest creatures on earth? A garden ... IF a garden snail moved at it's fastest ...st would it move?

...k in the box below.

Name_____



Math Challenge
Grain Stock Up

Trevor has half a dozen chickens. He wants to buy enough grain to feed the chickens for a month. If there are four weeks in a month and every chicken eats 24 ounces of grain a week, **how many pounds** of grain will Trevor need to buy?

Show your work in the box below.

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13 Brainteasers

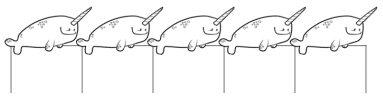
Name_____

Name That Narwhal

Five Narwhals are traveling in a pod to the Narwhal meet up near Iceland. Use the clues below to determine which Narwhal is which.

1. There are two narwhals between Nathan and Nancy.
2. Neesha is in front of Nathan.
3. Nathan is between Neesha and Nory.
4. There is one narwhal between Nathan and Nicholas.

Cut out the cards at the bottom of the page to help you if you would like. Then write your answers in the boxes below.



Name_____

OCEANS Brainteaser

Arrange the letters in OCEANS so there is one of every letter in the word in every row, column, and 2x3 box.

S	C		N		
		O			
	S		F		

Name_____

Sea Legs Brainteaser

I counted 50 legs at the aquarium. All the legs were on penguins, octopuses, and crabs. If I counted **at least one** of each animal, how many penguins, octopuses, and crabs might be in the aquarium?

Find all the possible answers to this problem. Use the table below to help you organize your work. When the table is full, you will have found all the possible answers.

Penguins (2 legs)	Octopuses (8 legs)	Crabs (10 legs)

Name_____

Barn Stalls Brainteaser

Arrange the numbers 1-9 in the stalls so every row, column, and diagonal has **a sum of 15**. Then use the Animal Stall Assignments at the bottom of the page to label each animal's stall.

		6
	5	
	Dog	Chicken

Animal Stall Assignments					
1	Horse	4	Rooster	7	Chicken
2	Cow	5	Dog	8	Goat
3	Pig	6	Cat	9	Sheep

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Name_____

FARM Brainteaser

Arrange the letters in FARM so there is only one of each letter in the word in every row, column, and 2x2 box.

A	F		
	A	R	M

Name_____

Zoo Map •2

Complete the missing boxes in the table below. Then **draw and label** each animal's habitat on the zoo map. Every habitat will fit on the map.

Animal Habitat	Area	Perimeter	Length	Width
Penguins	20 sq. units			4 units
Bats		20 units	3 units	
Monkeys	24 sq. units			

Name_____

Animal Equations •1

Balance each set of equations by determining the hidden number in each set of number sentences.

1. ? + 2 = 10 − 4	2. 3 + ? = 9 − 2	3. 9 + 3 = ? + 6
4. 11 − 7 = 1 + ?	5. 7 + 6 = ? + 3	6. 8 + ? = 9 + 7
7. 2 + ? = 16 − 2	8. ? + 5 = 20 − 10	9. 4 + 8 = 18 − ?
10. ? + 6 = 15 − 4	11. 7 + 7 = 4 + ?	12. 6 − 4 = ? − 10
13. 9 + 9 = ? + 11	14. ? − 8 = 1 + 5	15. 10 − ? = 4 + 5
16. 12 − 6 = 5 + ?	17. 16 − ? = 13 − 6	18. ? − 9 = 6 + 5

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Name_____

Animal Equations •2

Balance each set of equations by determining the hidden number in each set of number sentences.

1. ? + 30 = 90 − 40	2. 45 + ? = 100 − 10	3. 33 + 33 = ? − 4
4. 11 + 40 = 30 + ?	5. 19 + 19 = ? − 2	6. 61 + ? = 81 − 4
7. 22 + ? = 80 − 36	8. ? + 43 = 93 − 16	9. 72 − 17 = 22 + ?
10. ? + 14 = 20 + 79	11. 38 + 16 = 11 + ?	12. 77 + 21 = ? − 1
13. ? − 12 = ? + 11	14. ? + 46 = 29 + 63	15. 19 + ? = 100 − 30
16.	17.	18.

Name_____

WILD Brainteaser

Arrange the letters in WILD so there is only one of each letter in the word in every row, column, and 2x2 box.

		L	
I			

Name_____

Animal Enclosures

Each of these five animals (Clipper, Millie, Harold, Leo) live in a different shaped enclosure (pentagon, rectangle, rhombus, octagon) at the zoo. Use the clues below to determine the name of each animal and the shape of the enclosure they live in.

1. The lion and the zebra do not live in the rhombus.
2. Leo's enclosure has eight straight sides.
3. Millie's enclosure has four straight sides that are equal in length.
4. The zebra lives in a rectangle.
5. Clipper's enclosure has four right angles.
6. Harold's enclosure has five sides and five angles.
7. The gorilla lives in an octagon.

Show your work and your answer here:









The fox's name is _____. Her enclosure is a(n) _____.
The lion's name is _____. His enclosure is a(n) _____.
The zebras name is _____. Her enclosure is a(n) _____.
The gorilla's name is _____. His enclosure is a(n) _____.

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Name_____

CAT & MOUSE Brainteaser

Arrange the letters and symbol in CAT & MOUSE so there is one of every letter and symbol in the words in every row, column, and 3x3 box.

T	A			E		M		U
&								
					C			&
		U						A
E			S	U	O			
		S	T			&		E
C	U			S		O		

Name_____

Zoo Map •1

Complete the missing boxes in the table below. Then label each animal's habitat on the zoo map.

Animal Habitat	Area	Perimeter
Meerkats	10 sq. units	
Zebras	12 sq. units	
Cheetahs		22 units
Elephants	24 sq. units	
Giraffes	20 sq. units	
Gorillas		20 units

Zoo Map

Name_____

FOREST Brainteaser

Arrange the letters in FOREST so there is one of every letter in the word in every row, column, and 2x3 box.

		E	T		
				O	
R		T			S
	R	S			
	F				E

Name_____



Math Challenge
Ostrich Eggs

Did you know the ostrich lays the largest eggs of any bird? An average ostrich egg is as big as a cantaloupe and weighs as much as two dozen chicken eggs! If one chicken egg weighs 2 ounces, how many pounds does an ostrich egg weigh?

Show your thinking

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Write at least 3 sentences explaining how you found your answer. What did you do first, second, last? How did you know you should add, subtract, multiply or divide? How did you keep track of your work? What strategies did you use to solve the problem?



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All math challenges come with a page for students to explain their mathematical thinking

Answer Keys for Every Problem

Math Challenge
Flyfest
Answer Key

Frank, Floyd, Francine, and Fiona are speckled Frogs, who are sitting on speckled logs, eating the most delicious Flies. Altogether the Four Frogs ate 100 Flies. Use the clues below to determine how many Flies each Frog ate.

Clue #1: Floyd and Francine ate 40 Flies altogether.
Clue #2: Frank ate 22 more Flies than Fiona.
Clue #3: Francine ate 8 more Flies than Floyd.

Show your work in the box below.

Frank ate 41 Flies.
Floyd ate 16 Flies.
Francine ate 24 Flies.
Fiona ate 19 Flies.

Using Clue #1 students can determine that if Floyd and Francine ate 40 Flies then Frank and Fiona ate 60 (100 total Flies eaten - 40 = 60).

Using Clue #2 students can guess and check to find two numbers with a sum of 60 and a difference of 22 (41 & 19). They can determine that Frank ate the larger amount (41), and Fiona the smaller amount (19) from clue #2 as well.

Using Clue #3 students can guess and check to find two numbers with

Math Challenge
Whale Whistles
Answer Key

Did you know that the blue whale makes a whistling sound that is the loudest of any animal? This call can be heard from over 800 kilometers (almost 500 miles) away by other blue whales! Sound is measured in decibels. A whisper measures 30 decibels while a jet taking off measures 140 decibels. Use the clues below to determine how many decibels the blue whale's whistle measures.

Clue #1: I am a three-digit even number.
Clue #2: The sum of my digits is 17.
Clue #3: The digit in my ones place is seven more than the digit in my hundreds place.

Use the box below to show your work.

A blue whale's whistle measures 188 decibels.

Students can keep track of their work in a chart similar to the one below. Since there must be at least 1 in the hundreds place to make this a three-digit number, there are only 2 possible digits in the hundreds place that will work with clue #3. The only combination which produces an even number where the digits have a sum of 17 is 188.

Hundreds	Tens	Ones	
1	8	8	Correct answer!

Math Challenge
Bookworm
Answer Key

Wendel the bookworm has read a ton of books! Use the clues below to determine how many books Wendel has read.

Clue #1: I am a four-digit number.
Clue #2: The sum of my digits is 10.
Clue #3: The digit in my ones place is two more than the digit in my thousands place.
Clue #4: The digit in my tens place is two less than the digit in my hundreds place.
Clue #5: I am greater than 2,500.

Use the box below to show your work.

Wendel has read 3,205 books.

Students can keep track of their work in a chart similar to the one below. The digit in the ones place must be at least 3, to meet the requirements of Clue #3. The only 3 combinations of digits that Fit clues 1-4 are shown below. Out of these 3 numbers, the only one greater than 2,500 (clue #5) is 3,205.

Thousands	Hundreds	Tens	Ones	
1	4	2	3	Eliminate - less than 2,500
2	3	1	4	Eliminate - less than 2,500

Math Challenge
Legs & Tails
Answer Key

At the aquarium there is an exhibit of crabs and an exhibit of seahorses. Crabs are decapods. That means they have ten legs (including the Front claws). Seahorses have zero legs, but they do have one tail. Use the clues below to determine how many crabs and seahorses are in the exhibits.

Clue #1: Crabs and seahorses have two eyes.
Clue #2: IF I count all the eyes in the exhibits I will count 50 eyes.
Clue #3: IF I count all the legs in the exhibits I will count 100 legs.

Show your work in the box below.

There are 10 crabs.
There are 15 seahorses.

50 total eyes ÷ 2 eyes per animal = 25 total crabs and seahorses
100 total legs ÷ 10 legs per crab= 10 total crabs
25 total animals - 10 crabs = 15 seahorses

Student's don't have to use division to solve this problem. They can use repeated addition or draw a picture instead.

One possibility using repeated addition:

Math Challenge
Ostrich Eggs
Answer Key

Did you know the ostrich lays the largest eggs of any bird? An average ostrich egg is as big as a cantaloupe and weighs as much as two dozen chicken eggs! IF one chicken egg weighs 2 ounces, **how many pounds** does one ostrich egg weigh?

Show your work in the box below.

One ostrich egg weighs 3 pounds.

Student's do not need to know how to multiply or divide to solve this problem. They can use repeated addition or repeated subtraction to solve the problem instead. IF they are unFamiliar with how many ounces are in one pound they can use the Math Challenge Resource page at the end of this document:

1 dozen = 12 so 2 dozen = 24 (12+12)
24 eggs x 2 ounce per egg (24+24) = 48 ounces

1 pound = 16 ounces so
16 + 16 + 16 = 48 (3 groups of 16) or 48 - 16 - 16 - 16 = 0 (3 groups of 16)
3 pounds = 48 ounces
1 ostrich egg weighs 3 pounds.

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Math Challenge
Parched Pachyderms
Answer Key

Elephants are the largest land mammal in the world. On average, an adult elephant drinks 45 gallons of water a day. That's enough water to Fill a bathtub! IF a regular water bottle holds 16 ounces of water, how many water bottles would one elephant drink in one day?

Show your work in the box below.

An elephant would drink 360 water bottles in one day.

IF students are unFamiliar with capacity conversions, they can use the Math Challenge Resource page at the end of this document to help them. IF students know there are 2 cups in 16 ounces they can use that inFormation to get to the answer:

16 ounces (1 water bottle) = 2 cups = 1 pint
2 pints = 1 quart
4 quarts = 1 gallon
8 pints in 1 gallon = 8 water bottles per gallon of water

Students can use repeated addition with Friendly numbers rather than multiplication to get to the answer as shown below:

45 gallons of water per day x 8 water bottles in 1 gallon =
45 + 45 + 45 + 45 + 45 + 45 + 45 + 45 =

Math Challenge
Going on SaFari
Answer Key

Adam is heading out For a day on an African SaFari. He has time to see three types of animals. Adam's guide says there are lions, giraFFes, zebras, elephants, gorillas, and crocodiles he can see. IF Adam can choose only 3 animals to see today, how many diFFerent combinations of animals does he have to choose From?

Find an organized way to show **all possible combinations** and the answer in the box below.

Adam has 14 possible saFari animal combinations

1	lions	giraFFes	zebras	11	giraFFes	elephants	gorillas
2	lions	giraFFes	elephants	12	giraFFes	elephants	crocodiles
3	lions	giraFFes	gorillas	13	giraFFes	gorillas	crocodiles
4	lions	[illegible]	[illegible]codiles	[illegible]	[illegible]	[illegible]	gorillas
[illegible]	lions	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Math Challenge
The Animals
Answer Key

Harry [illegible] at the zoo. You can buy grain to Feed birds For $0.25, lettuce [illegible] giraFFes For $1.25, or pellets to Feed [illegible] deer. Harry [illegible] animal at least [illegible] Use the [illegible] many [illegible] Fed each animal.

Clue #1: [illegible]
Clue #2: [illegible]
Clue #3: [illegible]

[illegible] the birds 2 [illegible] and [illegible] the giraFFe

[illegible]	Deer $0.75	GiraFFes $1.25	
1	1	4	$6.00
1	2	3	$5.50
1	3	2	$5.00
1	4	1	$4.50
[illegible]	[illegible]	[illegible]	[illegible]

Math Challenge
Alligator Line Up
Answer Key

The American alligator weighs around 500 pounds and can be up to 15 Feet long! IF every alligator is exactly 15 Feet long, how many alligators would you need to line up to stretch one mile? (There are 5,280 Feet in one mile.)

Show your work in the box below.

You would need 352 alligators to stretch one mile.

Students don't need to be able to divide to solve this problem. I would not expect 2nd and 3rd graders to be proficient with (or even be introduced to) the standard division algorithm. Instead of Focusing on dividing, students should look For ways to eFFiciently group sets of 15 in a logical way to get to 5,280. Grouping sets of 15 (the length of one alligator) into Friendly numbers and then grouping these groups into larger groups is an age-appropriate strategy that shows higher level mathematical thinking and organizational skills For 2nd and 3rd graders.

For example:
2 groups of 15 = 30
4 groups of 15 = 60
8 groups of 15 = 120
10 groups of 15 = 150
20 groups of 15 = 300
40 groups of 15 = 600
80 groups of 15 = 1200
160 groups of 15 = 2400

Math Challenge
Scrambled Eggs
Answer Key

Clucky's eggs are all mixed up! Divide the eggs equally into two nests so the sum of their numbers is equal in both.

What is the sum in each nest? 25

Use the box below to show your work.

Nest 1	Nest 2
1	3
2	4
10	7
12	11
Total: 25	Total: 25

2 7 1 11 4 12 3 10

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Math Challenge
Old MacDonald had Two Barns
Answer Key

Old MacDonald had two barns. He divided the cows, horses, and pigs on his Farm equally between the two barns. Use the clues below to determine how many animals are in each barn.

Clue #1: There are 4 adult cows.
Clue #2: For every adult cow there are 3 baby cows.
Clue #3: There are twice the number of horses as there are cows.
Clue #4: There are half the number of pigs as there are cows.

Show your work in the box below.

There are 28 animals in each barn.

There are 4 adult cows (given in clue #1)
There are 12 baby cows (4x3 or 3+3+3+3=12, clue #2)
4 adult cows + 12 baby cows = 16 total cows.
There are 32 horses (2x16 or 16+16=32 horses, clue #3)
There are 8 pigs (16÷2=8 or 8 groups of 2=16 clue #4)

4 + 12 + 32 + 8 = 56 total animals
56 ÷ 2 = 28 animals in each barn

Students do not need to use the traditional division algorithm to solve this problem. For the Final division problem (56÷2), students can use repeated addition (counting by twos until they get to 56), or can

Math Challenge
A Snail's Pace
Answer Key

Did you know a garden snail is one of the slowest creatures on earth? A garden snail's top speed is 50 yards per hour. IF a garden snail moved at it's Fastest speed For an entire day, **how many Feet** would it move?

Show your work in the box below.

A garden snail would move 3,600 Feet in one day.

IF students need help with the number of hours in one day or the number of Feet in one yard they can use the Math Challenge Resource page at the bottom of [illegible] document:

24 hours in 1 day
24 hours x 50 yards per hour = [illegible] yards in 1 day
1,200 yards per day x 3 yards per [illegible] = 3,600 Feet

[illegible] to know [illegible] addition [illegible] ple below:

50 + 50 + 50 + 50 + 50 + 5[illegible] = 500 yards
50 + 50 + 50 + 50 + 50 + 5[illegible] = 500 yards
50 + 50 + 50 + 50 = 200 yards

Trevor has half a dozen chi[illegible] wants to [illegible] chicken [illegible] month. IF th[illegible] bur[illegible] oats [illegible] off grain w[illegible] buy?

Show [illegible] box be[illegible]

Trevor will [illegible] 36 pounds [illegible] grain

[illegible] needs to k[illegible] any are in one [illegible] he numbe[illegible] in a pound, th[illegible] e the Math Che[illegible] ource page [illegible] rom of this d[illegible]

[illegible]zen + 2 + 6 (b[illegible] [illegible]) x 21 ounces [illegible] per week = 294 ounces grain per week
294 ounces of grain x 4 weeks in one month = 576 total ounces of grain

576 total ounces of grain ÷ 16 ounces of grain per pound = 36 pounds of grain

Students don't have to multiply or divide to solve this problem. Instead they can use repeated addition and group the smaller numbers into larger Friendly numbers like the example below:

Name_____

Name That Narwhal

Five Narwhals are traveling in a pod to the Narwhal meet up near Iceland. Use the clues below to determine which Narwhal is which.

1. There are two narwhals between Nathan and Nancy.
2. Neesha is in Front of Nathan.
3. Nathan is between Neesha and Nary.
4. There is one narwhal between Nathan and Nicholas.

Cut out the cards at the bottom of the page to help you if you would like. Then write your answers in the boxes below.

Name_____

Animal Enclosures

Each of these five animals (Clipper, Millie, Harold, Leo) live in a different shaped enclosure (pentagon, rectangle, rhombus, octagon) at the zoo. Use the clues below to determine the name of each animal and the shape of the enclosure they live in.

1. The lion and the zebra do not live in the rhombus.
2. Leo's enclosure has eight straight sides.
3. Millie's enclosure has Four straight sides that are equal in length.
4. The zebra lives in a rectangle.
5. Clipper's enclosure has Four right angles.
6. Harolds enclosure has five sides and five angles.
7. The gorilla lives in an octagon.

Show your work and your answer here:

The Fox's name is _____. Her enclosure is a(n) _____
The lion's name is _____. His enclosure is a(n) _____
The zebras name is _____. Her enclosure is a(n) _____
The gorilla's name is _____. His enclosure is a(n) _____

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Name_____

Sea Legs Brainteaser

I counted 50 legs at the aquarium. All the legs were on penguins, octopuses, and crabs. IF I counted **at least one** of each animal, how many penguins, octopuses, and crabs might be in the aquarium?

Find all the possible answers to this problem. Use the table below to help you organize your work. When the table is Full, you will have Found all the possible answers.

Penguins (2 legs)	Octopuses (8 legs)	Crabs (10 legs)

Name_____

Barn Stalls Brainteaser

Arrange the numbers 1-9 in the stalls so every row, column, and diagonal has a **sum of** 15. Then use the Animal Stall Assignments at the bottom of the page to label each animal's stall.



Zoo M[illegible]
Answ[illegible]

Complet[illegible] missing boxes in the tab[illegible]ow. Then label each [illegible] habitat on the zoo map.

Animal Habitat	Area	Perimeter
Meer[illegible]	10 sq. units	14 [illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]

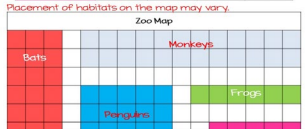


Zoo Map #2
Answer Key

Complete the missing boxes in the table below. Then **draw and label** each animal's habitat on the zoo map. Every habitat will Fit on the map.

Animal Habitat	Area	Perimeter	Length	Width
Penguins	20 sq. units	18 units	5 units	4 units
Bats	21 sq. units	20 units	3 units	7 units
Monkeys	24 sq. units	28 units	12 units	2 units
Brown Bears	20 sq. units	24 units	10 units	2 units
Frogs	6 sq. units	14 units	6 units	1 unit
Foxes	25 sq. units	20 units	5 units	5 units

Placement of habitats on the map may vary.



Animal Equations #1
Answer Key

Balance each set of equations by determining the hidden number in each set of number sentences.

1. 4 + 2 = 10 - 4	2. 3 + 4 = 9 - 2	3. 9 + 3 = 6 + 6
4. 11 - 7 = 1 + 3	5. 7 + 6 = 10 + 3	6. 8 + 8 = 9 + 7
7. 2 + 12 = 16 - 2	8. 5 + 5 = 20 - 10	9. 4 + 8 = 18 - 6
10. 5 + 6 = 15 - 4	11. 7 + 7 = 4 + 10	12. 6 - 4 = 12 - 10
13. 9 + 9 = 7 + 11	14. 14 - 8 = 1 + 5	15. 10 - 1 = 4 + 5
16. 12 - 6 = 5 + 1	17. 16 - 9 = 13 - 6	18. 20 - 9 = 6 + 5

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Animal Equations #2
Answer Key

Balance each set of equations by determining the hidden number in each set of number sentences.

1. 20 + 30 = 90 - 40	2. 45 + 45 = 100 - 10	3. 33 + 33 = 70 - 4
4. 11 + 40 = 30 + 21	5. 19 + 19 = 40 - 2	6. 61 + 16 = 81 - 4
7. 22 + 22 = 80 - 36	8. 34 + 43 = 93 - 16	9. 72 - 17 = 22 + 33

FARM Brainteaser
Answer Key

Arrange the letters in FARM so there is only one of each letter in the word in every row, column, and 2x2 box.

M	R	F	A
A	F	R	M

WILD Brainteaser
Answer Key

Arrange the letters in WILD so there is only one of each letter in the word in every row, column, and 2x2 box.

D	I	L	W
W	L	D	I

FOREST Brainteaser
Answer Key

Arrange the letters in FOREST so there is one of every letter in the word in every row, column, and 2x3 box.

O	S	E	T	F	R
F	T	R	E	S	O
S	E	F	R	O	T

OCEANS Brainteaser
Answer Key

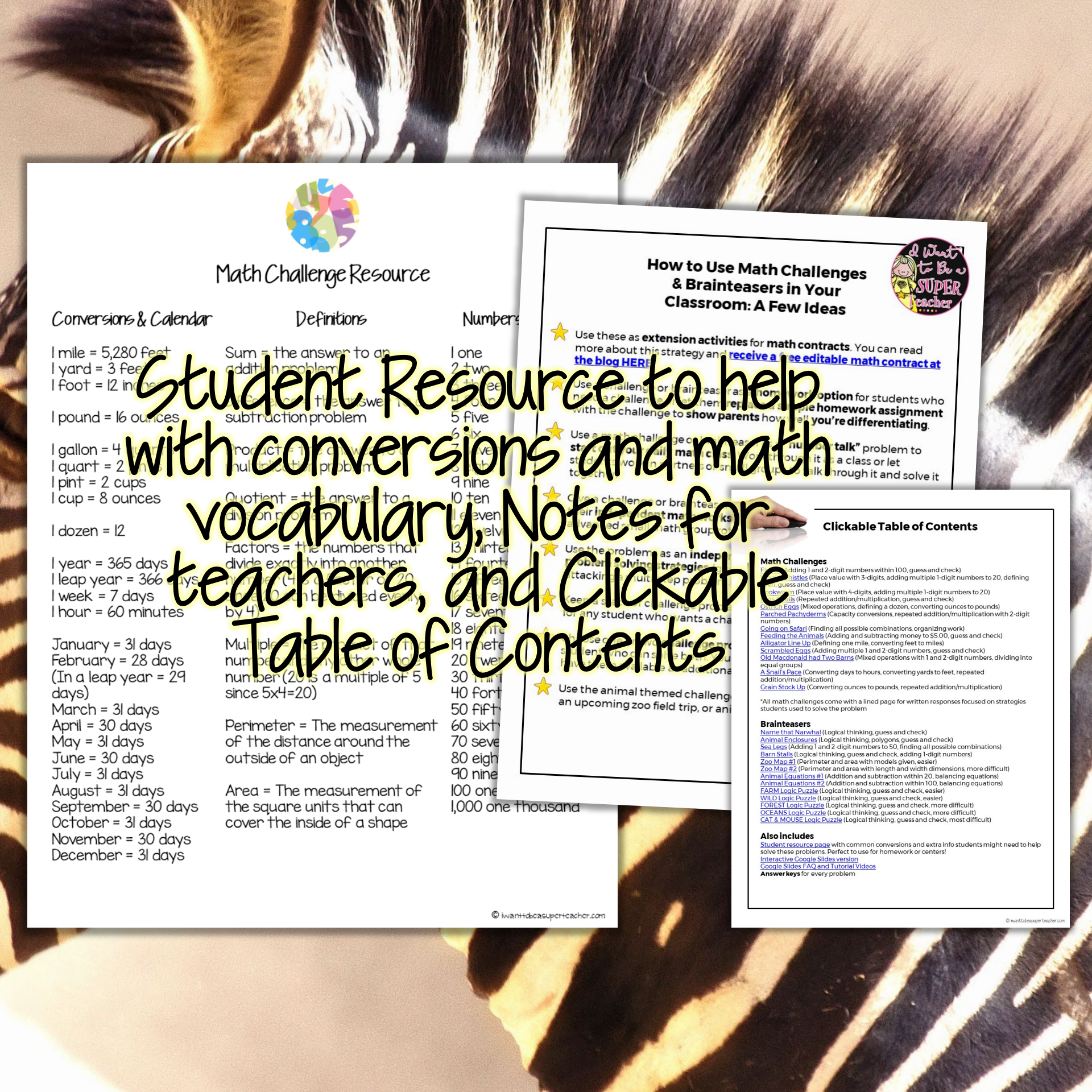
Arrange the letters in OCEANS so there is one of every letter in the word in every row, column, and 2x3 box.

S	C	E	N	O	A
N	A	O	C	S	E
C	S	A	E	N	O

CAT & MOUSE Brainteaser
Answer Key

Arrange the letters and symbol in CAT & MOUSE so there is one of every letter and symbol in the words in every row, column, and 3x3 box.

T	A	C	O	E	&	M	S	U
&	E	M	U	A	S	C	T	O
U	S	O	M	T	C	A	E	&
M	T	U	&	C	E	S	O	A
E	&	A	S	U	O	T	M	C
O	C	S	T	M	A	&	U	E
A	M	T	C	O	U	E	&	S
C	U	&	E	S	T	O	A	M
S	O	E	A	&	M	U	C	T



Student Resource to help with conversions and math vocabulary, Notes for teachers, and Clickable Table of Contents

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