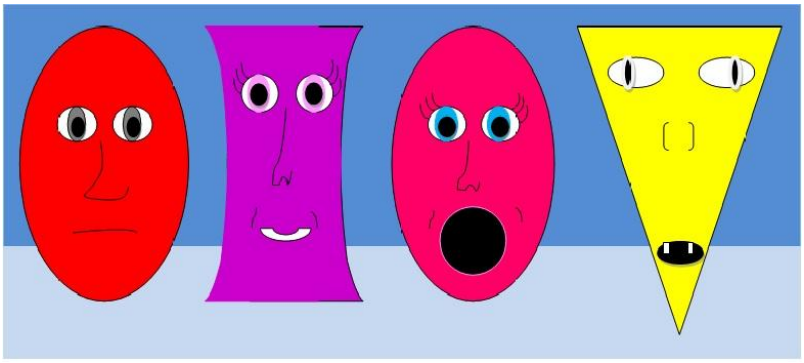
Mean, Median, Mode, and Range Lesson Plans

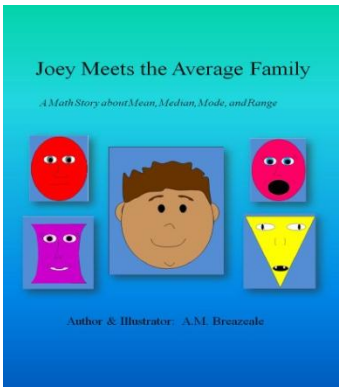


Created By: Dance Party in Room 15

Dear Customer,

This product contains lesson plans and activities to teach mean, median, mode, and range.

These plans follow closely with the children's book Joey Meets the Average Family.



However, this book is not necessary to follow these plans.

You will also receive a pre-test and a post-test, 8 task cards, and suggested enrichment or remediation activities.

Enjoy!


Dear Customer,

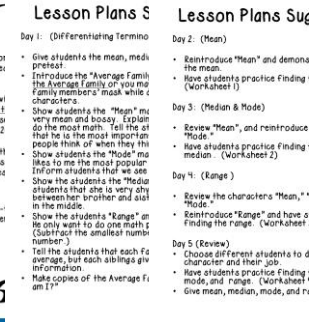
This product contains lesson
activities to teach mean, me
and range.

These plans follow closely wi
children's book Joey Meets t
Family which is set to releas
amazon.com by January 31, 2

However, th
not necess
follow thes

You will also receive a pre-
post-test, and suggested e
remediation activities.

Enjoy!


Lesson Plans S

Day 1: (Differentiating Termino

- Give students the mean, medi
pretest.
- Introduce the "Average Famil
the Average Family or you ma
Family members' mask while
characters.
- Show students the "Mean" m
very mean and bossy. Explain
do the most math. Tell the st
that he is the most importan
people think of when they thi
- Show students the "Mode" ma
likes to me the most popular
Inform students that we see
- Show the students the "Media
students that she is very shy
between her brother and sist
in the middle.
- Show the students "Range" an
He only want to do one math
(Subtract the smallest numb
number.)
- Tell the students that each Fa
average, but each siblings giv
information.
- Make copies of the Average F
am I?"

Lesson Plans Sug

Day 2: (Mean)

- Reintroduce "Mean" and demons
the mean.
- Have students practice Finding
(Worksheet 1)

Day 3: (Median & Mode)

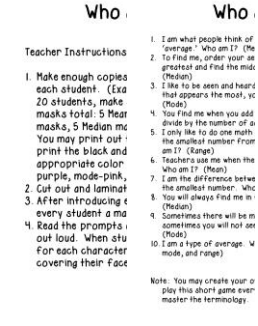
- Review "Mean", and reintroduce
"Mode."
- Have students practice Finding
median. (Worksheet 2)

Day 4: (Range)

- Review the characters "Mean," "
"Mode."
- Reintroduce "Range" and have s
Finding the range. (Worksheet

Day 5 (Review)

- Choose different students to d
character and their job.
- Have students practice Finding
mode, and range. (Worksheet
- Give mean, median, mode, and r


Who

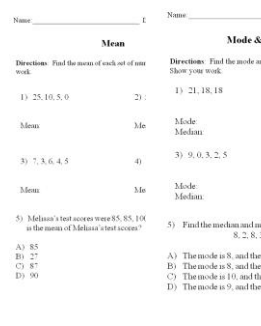
Teacher Instructions

1. Make enough copies
each student. (Exa
20 students, make
masks total: 5 Mean
masks, 5 Median ma
You may print out
print the black and
appropriate color
purple, mode-pink,
2. Cut out and laminat
3. After introducing
every student a ma
4. Read the prompts
out loud. When stu
for each character
covering their face

Who

1. I am what people think of
"average." Who am I? (Me
2. To find me, order your as
greatest and Find the mid
(Median)
3. I like to be seen and heard
that appears the most, yo
(Mode)
4. You find me when you add
divide by the number of a
5. I only like to do one math
the smallest number from
am I? (Range)
6. Teachers use me when the
who am I? (Mean)
7. I am the difference betwe
the smallest number. Wh
8. You will always find me in
(Median)
9. Sometimes there will be m
sometimes you will not se
(Mode)
10. I am a type of average. W
mode, and range)

Note: You may create your o
play this short game ever
master the terminology.


Name:_____ D

Mean

Directions: Find the mean of each set of num
work.

1) 25, 10, 5, 0

Mean:

2)

Me

3) 7, 3, 6, 4, 5

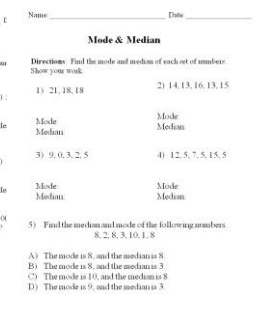
Mean:

4)

Me

5) Melissa's test scores were 85, 85, 10
is the mean of Melissa's test scores?

A) 85
B) 27
C) 87
D) 90


Name:_____ Date _____

Mode & Median

Directions: Find the mode and median of each set of numbers
Show your work.

1) 21, 18, 18

Mode:
Median:

2) 14, 13, 16, 13, 15

Mode
Median

3) 9, 0, 3, 2, 5

Mode:
Median:

4) 12, 5, 7, 5, 15, 5

Mode
Median

5) Find the median and mode of the following numbers:
8, 2, 8, 3, 10, 1, 8

A) The mode is 8, and the median is 8
B) The mode is 8, and the median is 3
C) The mode is 10, and the median is 8
D) The mode is 9, and the median is 3

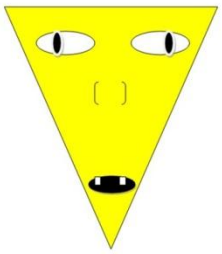
Mean

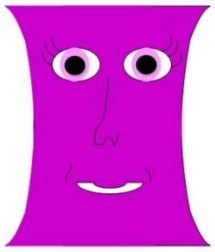

Mean


Mode


Mode


Range


Median



Name:_____ Date:___

Range

Directions: Find the range of each set of numbers. Sh
work.

1) 15, 10, 20

Range:

2) 1, 3, 2, 1

Range:

3) 100, 85, 78, 92, 0

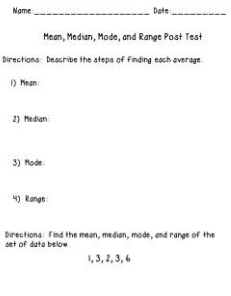
Range:

4) 5, 7, 15,

Range:

5) Find the range of the following numbers:
21, 67, 88, 22, 22, 4, 100

A) 12
B) 96
C) 79
D) 22


Name _____ Date: _____

Mean, Median, Mode, and Range Post Test

Directions: Describe the steps of Finding each average.

1) Mean:

2) Median:

3) Mode:

4) Range:

Directions: Find the mean, median, mode, and range of the
set of data below.

1, 3, 2, 3, 6


_____ Date

dian, Mode, and Ran

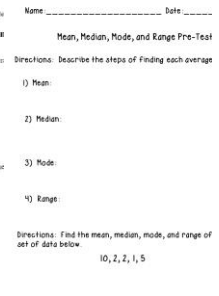
mean, median, mode, and r

2) 8, 2, 6, 4

Mean:
Median:
Mode:
Range:

contrast the mode and the

we find the mean.


Name:_____ Date:_____

Mean, Median, Mode, and Range Pre-Test

Directions: Describe the steps of Finding each average

1) Mean:

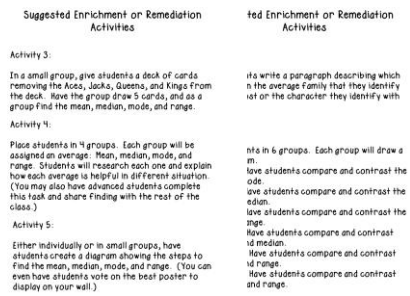
2) Median:

3) Mode:

4) Range:

Directions: Find the mean, median, mode, and range of
set of data below.

10, 2, 2, 1, 5


Suggested Enrichment or Remediation Activities

Activity 3:

In a small group, give students a deck of cards
removing the Aces, Jacks, Queens, and Kings from
the deck. Have the group draw 5 cards, and as a
group Find the mean, median, mode, and range.

Activity 4:

Place students in 4 groups. Each group will be
assigned an average: Mean, median, mode, and
range. Students will research each one and explain
how each average is helpful in different situation.
(You may also have advanced students complete
this task and share Finding with the rest of the
class.)

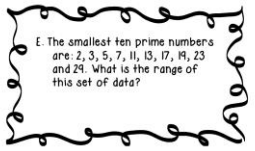
Activity 5:

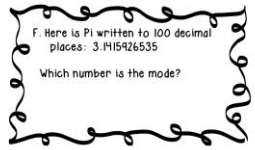
Either individually or in small groups, have
students create a diagram showing the steps to
Find the mean, median, mode, and range. (You can
even have students vote on the best poster to
display on your wall.)

ted Enrichment or Remediation Activities

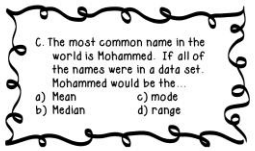
ita write a paragraph describing which
n the average family that they identify
ist or the character they identify with

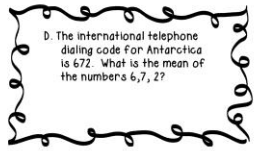
nts in 6 groups. Each group will draw a
m.
lave students compare and contrast the
ode.
ave students compare and contrast the
edian.
lave students compare and contrast the
nge.
Have students compare and contrast
id median.
Have students compare and contrast
id range.
Have students compare and contrast
and range.

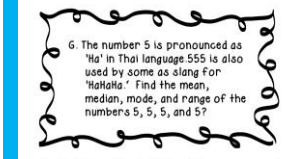

E. The smallest ten prime numbers are: 2, 3, 5, 7, 11, 13, 17, 19, 23 and 29. What is the range of this set of data?

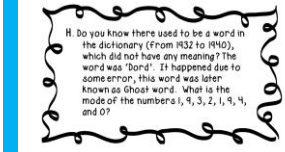

F. Here is Pi written to 100 decimal places: 3.1415926535

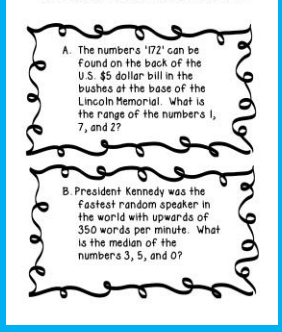
Which number is the mode?


C. The most common name in the world is Mohammed. If all of the names were in a data set. Mohammed would be the...
a) Mean c) mode
b) Median d) range


D. The international telephone dialing code for Antarctica is 672. What is the mean of the numbers 6, 7, 2?

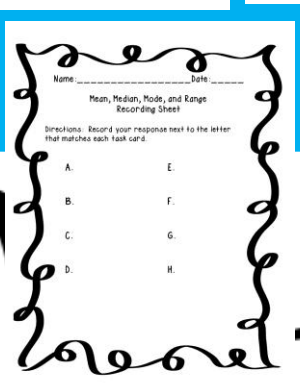

G. The number 5 is pronounced as 'Ha' in Thai language. 555 is also used by some as slang for 'HaHaHa.' Find the mean, median, mode, and range of the numbers 5, 5, 5, and 5?


H. Do you know there used to be a word in the dictionary (From 1932 to 1940), which did not have any meaning? The word was 'Dord'. It happened due to some error, this word was later known as Ghost word. What is the mode of the numbers 1, 9, 3, 2, 1, 9, 4, and 0?


Mean, Median, Mode, and Range Task Cards

A. The numbers '172' can be found on the back of the U.S. $5 dollar bill in the bushes at the base of the Lincoln Memorial. What is the range of the numbers 1, 7, and 2?

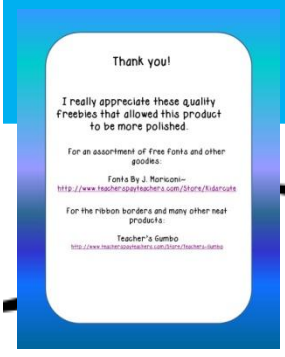
B. President Kennedy was the fastest random speaker in the world with upwards of 350 words per minute. What is the median of the numbers 3, 5, and 0?


Name:_____Date:_____

Mean, Median, Mode, and Range
Recording Sheet

Directions: Record your response next to the letter
that matches each task card.

A.
B.
C.
D.
E.
F.
G.
H.


Thank you!

I really appreciate these quality freebies that allowed this product to be more polished.

For an assortment of Free Fonts and other goodies:

Fonts By J. Mariconi-
http://www.teacherspayteachers.com/Store/Kidsrcute

For the ribbon borders and many other neat products:

Teacher's Gumbo
http://www.teacherspayteachers.com/Store/Teachers-Gumbo

Lesson Plans Suggestions

Day 1: (Differentiating Terminology)

- Give students the mean, median, mode, and range pretest.
- Introduce the "Average Family" by reading Joey Meets the Average Family or you may show the students each family members' mask while describing the characters.
- Show students the "Mean" mask and explain that he is very mean and bossy. Explain that he makes students do the most math. Tell the students that Mean thinks that he is the most important because he is what people think of when they think of the word "average."
- Show students the "Mode" mask and explain that she likes to be the most popular and she has a big mouth. Inform students that we see her the most.
- Show the students the "Median" mask and inform students that she is very shy and she likes to stay in between her brother and sister. She is always found in the middle.
- Show the students the "Range" mask and explain that he is lazy. He only want to do one math problem and be done. (Subtract the smallest number from the largest number.)
- Tell the students that each family member is a type of average but each sibling gives different information.
- Make copies of the Average Family Masks and play "Who am I?"

Lesson Plans Suggestions

Day 2: (Mean)

- Reintroduce "Mean" and demonstrate how to find the mean.
- Have students practice finding the mean. (Worksheet 1)

Day 3: (Median & Mode)

- Review "Mean", and reintroduce "Median" and "Mode."
- Have students practice finding the mode and median . (Worksheet 2)

Day 4: (Range)

- Review the characters "Mean," "Median," and "Mode."
- Reintroduce "Range" and have students practice finding the range. (Worksheet 3)

Day 5 (Review)

- Choose different students to describe each silly character and their job.
- Have students practice finding the mean , median, mode, and range. (Worksheet 4)
- Give mean, median, mode, and range post test.

Who am I?

Teacher Instructions:

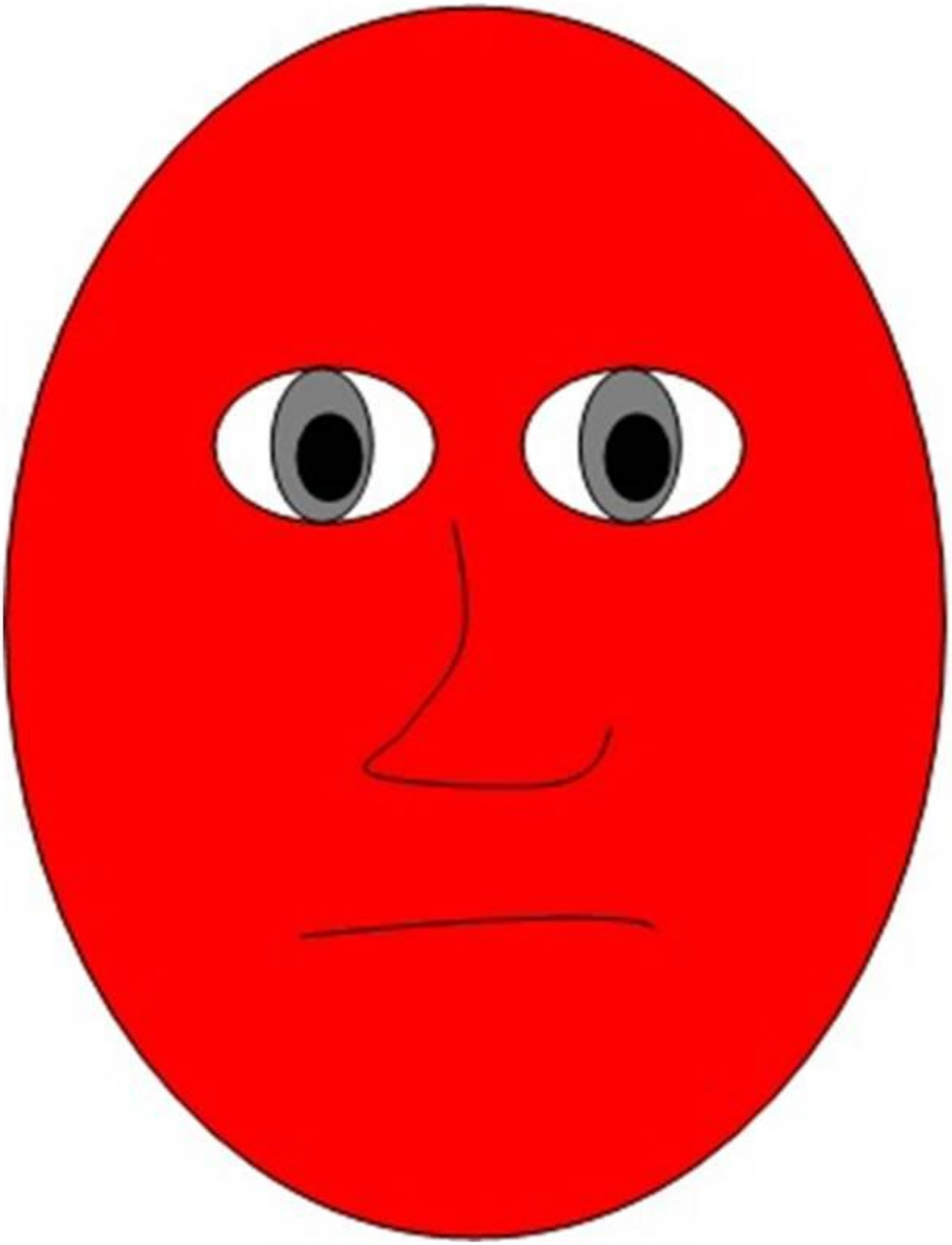
1. Make enough copies of the masks for each student. (Example: Say you have 20 students, make sure you have 20 masks total: 5 Mean masks, 5 Mode masks, 5 Median masks, 5 Range masks.) You may print out the color copies or print the black and white copies on the appropriate color (Mean-red, median-purple, mode-pink, and range-yellow)
2. Cut out and laminate if desired.
3. After introducing each character, give every student a mask.
4. Read the prompts on the following page out loud. When students hear the clue for each character, they will stand covering their face with their mask.

Who am I?

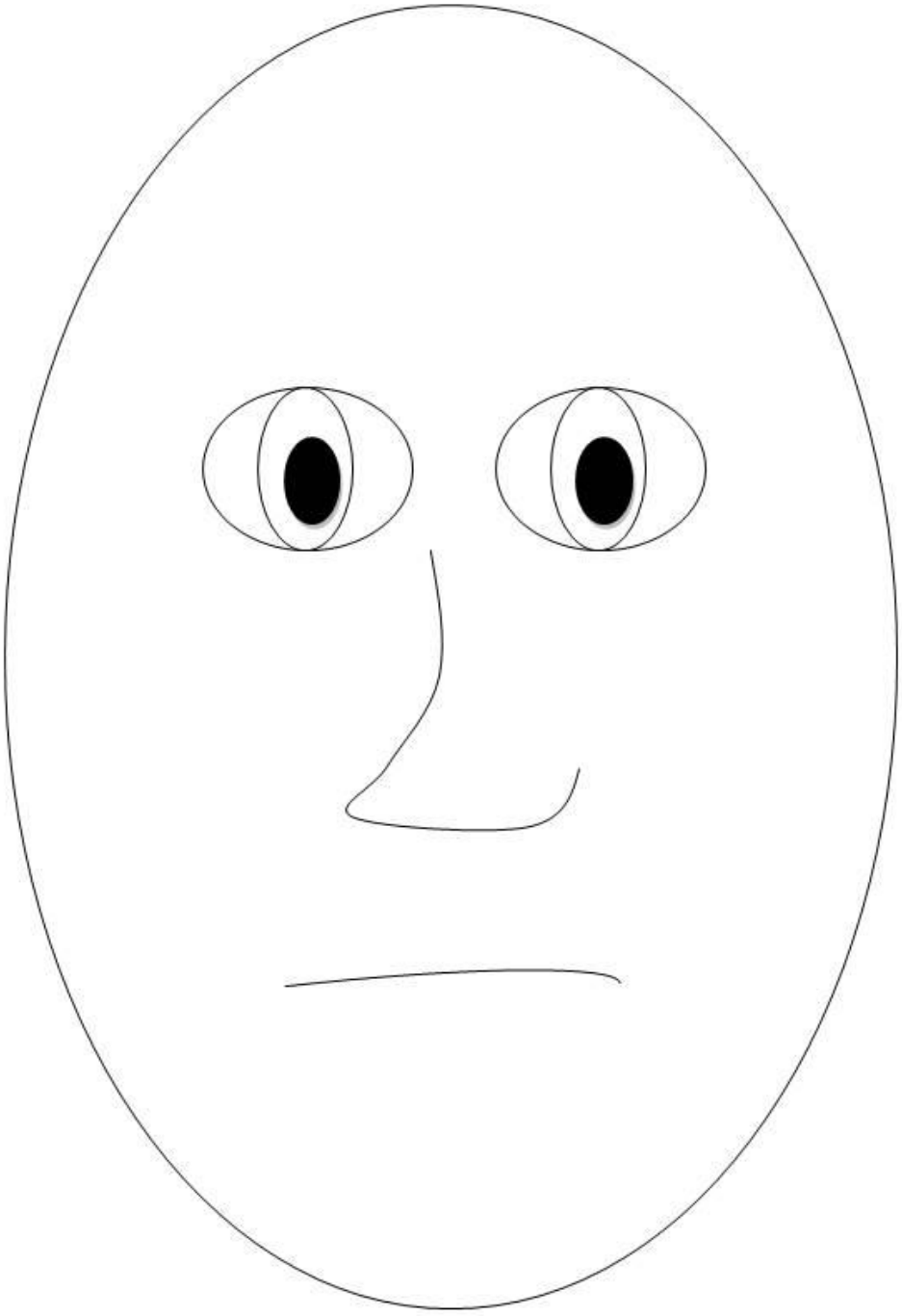
1. I am what people think of when they hear the word 'average.' Who am I? (Mean)
2. To find me, order your set of numbers from least to greatest and find the middle number. Who am I? (Median)
3. I like to be seen and heard. When you spot a number that appears the most, you find me. Who am I? (Mode)
4. You find me when you add all of the numbers and divide by the number of addends. Who am I? (Mean)
5. I only like to do one math problem which is subtract the smallest number from the largest number. Who am I? (Range)
6. Teachers use me when they average students' grades. Who am I? (Mean)
7. I am the difference between the largest number and the smallest number. Who am I? (Range)
8. You will always find me in the middle. Who am I? (Median)
9. Sometimes there will be more than one of me, and sometimes you will not see me at all. Who am I? (Mode)
10. I am a type of average. Who am I? (Mean, median, mode, and range)

Note: You may create your own if desired or you may play this short game every day to allow students to master the terminology.

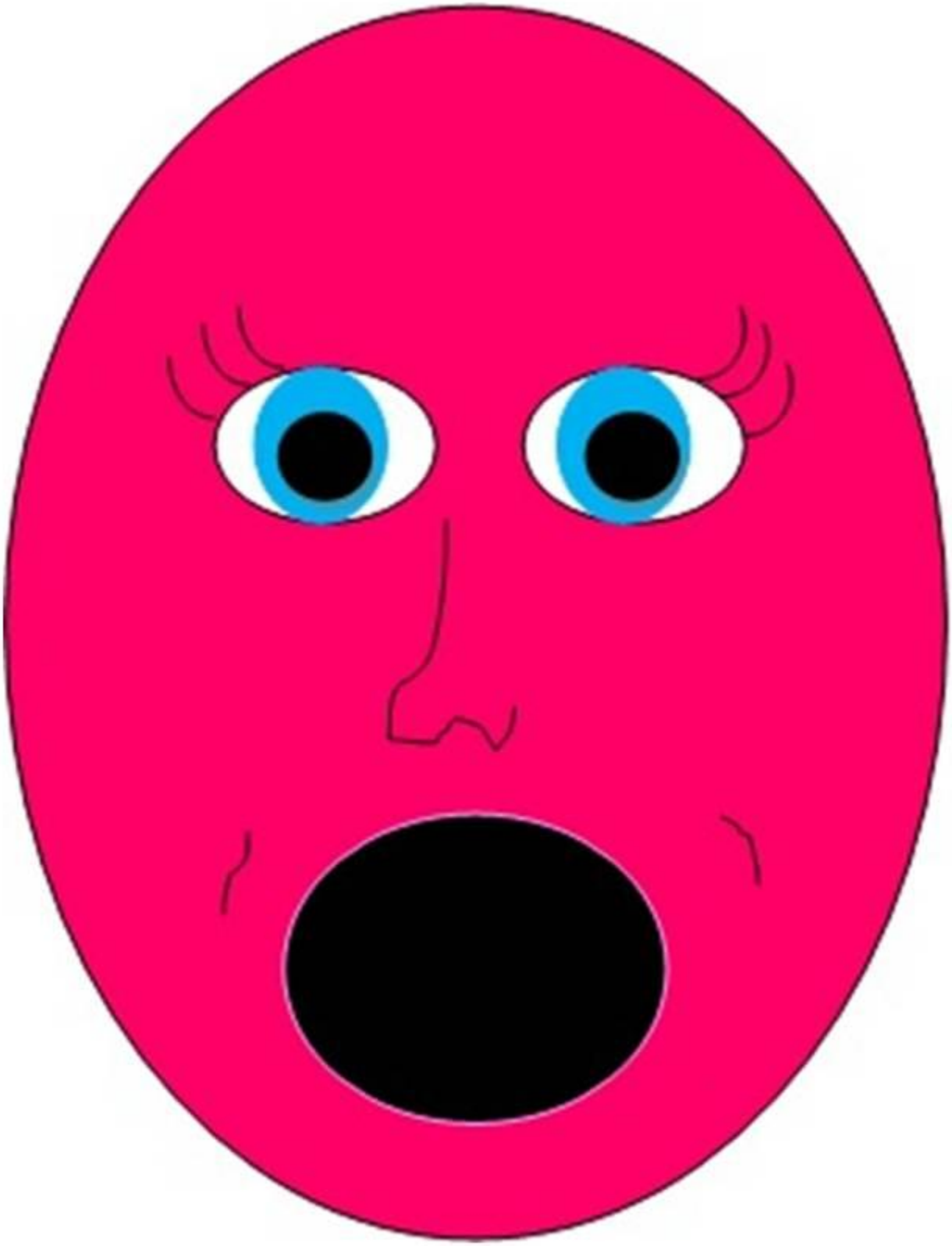
Mean



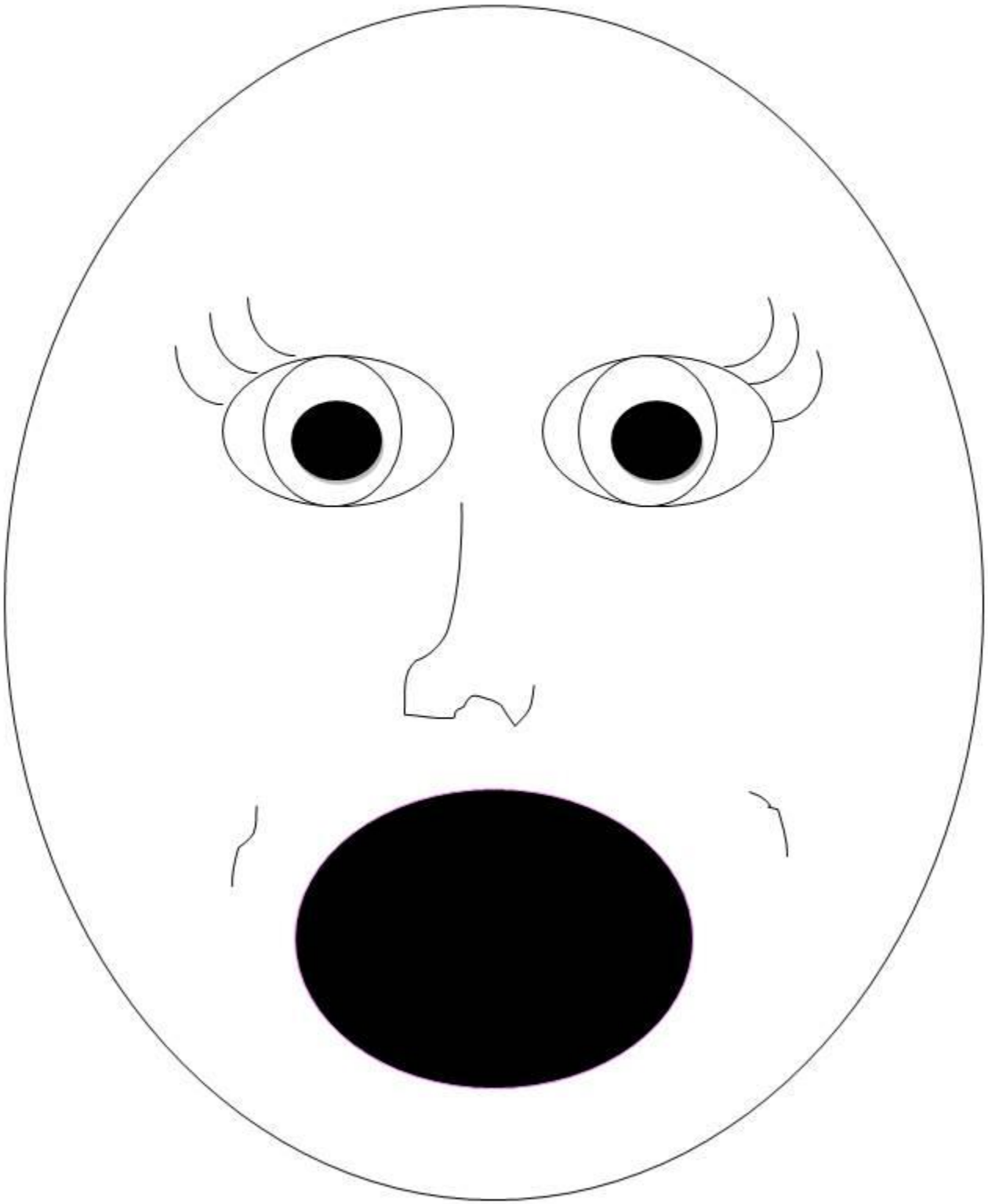
Mean



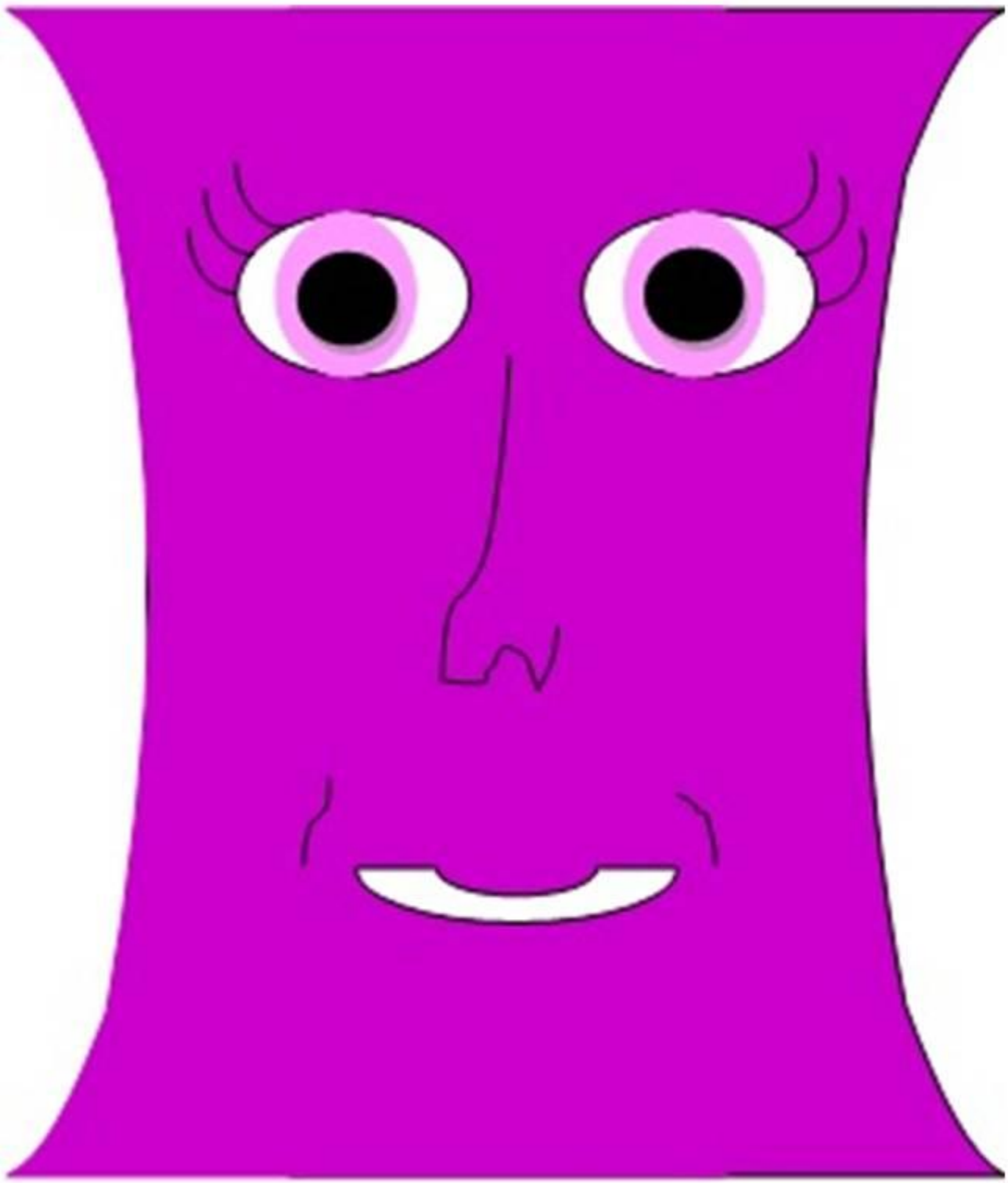
Mode



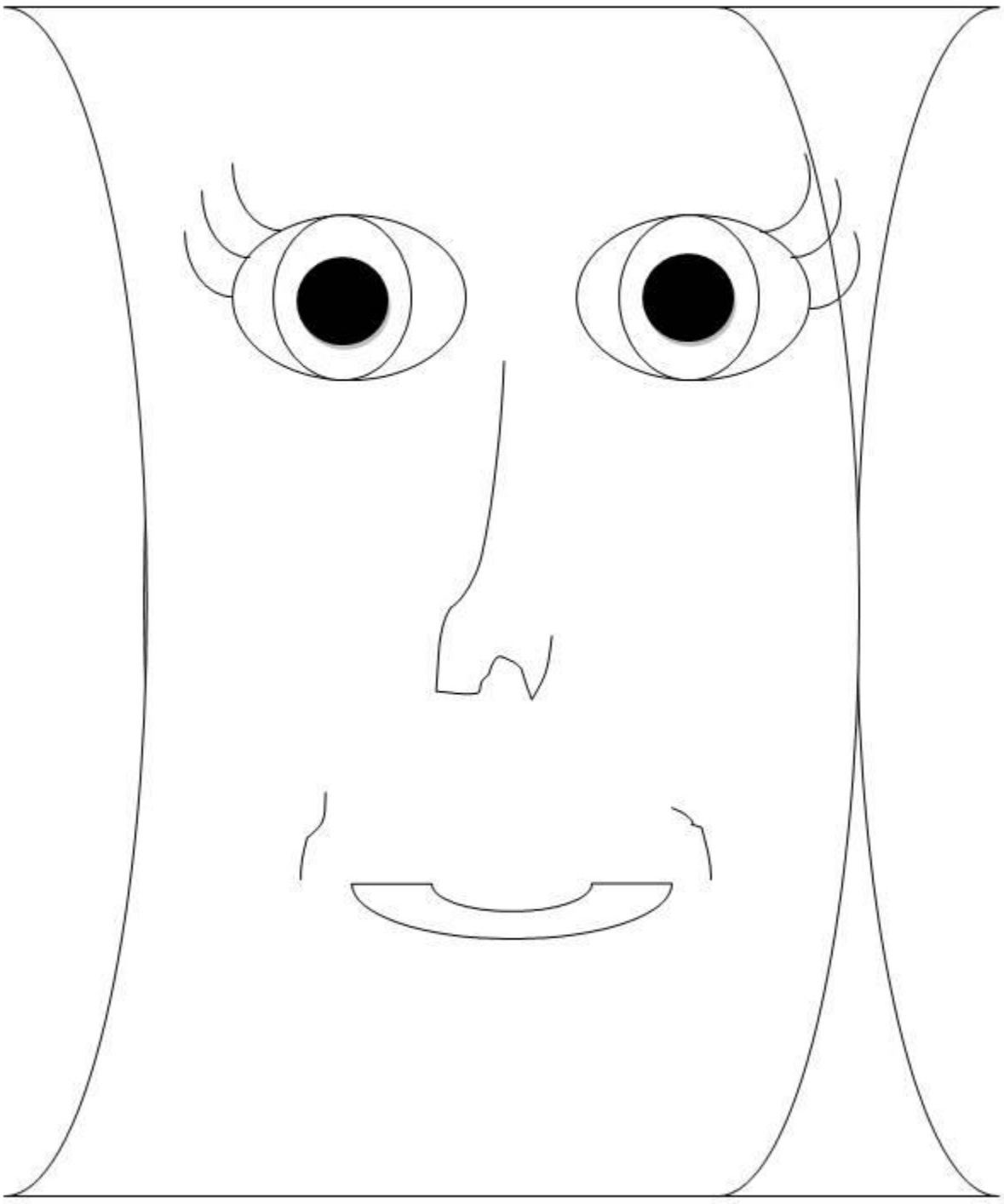
Mode



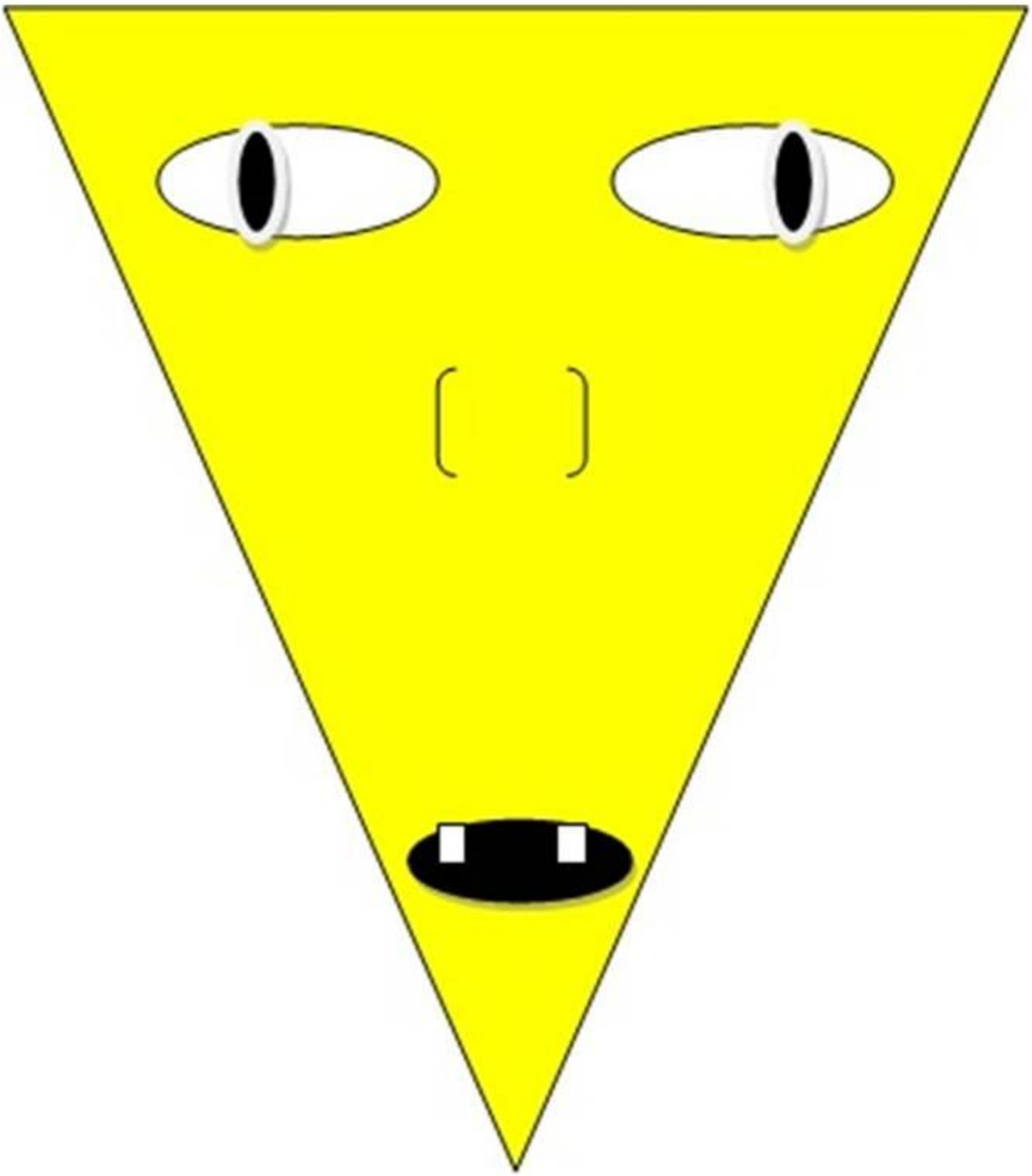
Median



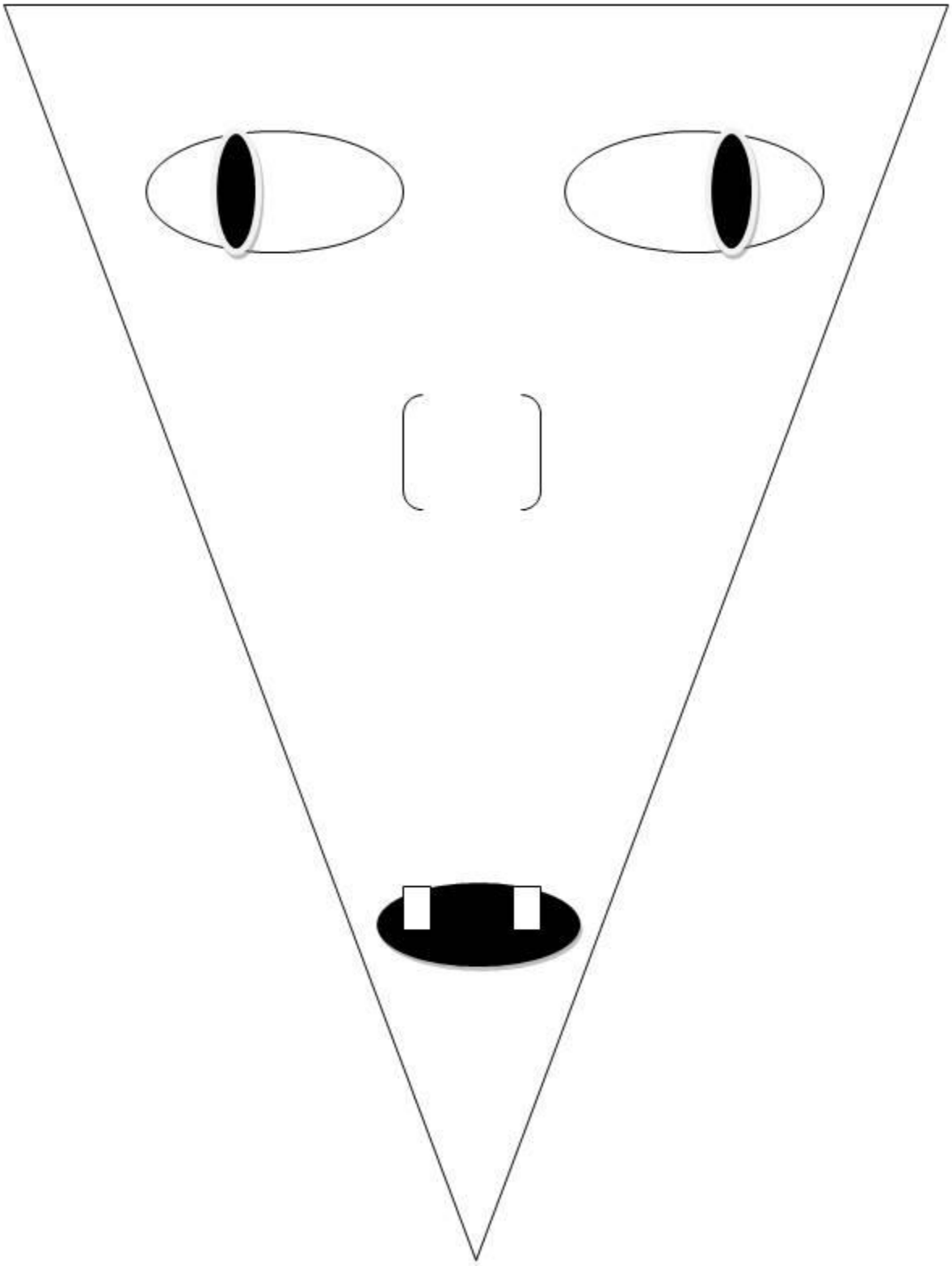
Median



Range



Range



Name:_____ Date:_____

Mean

Directions: Find the mean of each set of numbers. Show your work.

1) 25, 10, 5, 0

Mean:

2) 5, 3, 6, 1, 5

Mean:

3) 7, 3, 6, 4, 5

Mean:

4) 100, 200, 600

Mean:

5) Melissa's test scores were 85, 85, 100, 92, and 73. What is the mean of Melissa's test scores?

A) 85
B) 27
C) 87
D) 90

Name:_____ Date:_____

Mean (Key)

Directions: Find the mean of each set of numbers. Show your work.

1) 25, 10, 5, 0

Mean: **10**

2) 5, 3, 6, 1, 5

Mean: **4**

3) 7, 3, 6, 4, 5

Mean: **5**

4) 100, 200, 600

Mean: **300**

5) Melissa's test scores were 85, 85, 100, 92, and 73. What is the mean of Melissa's test scores?

A) 85
B) 27
C) 87
D) 90

Name:_____ Date:_____

Mode & Median

Directions: Find the mode and median of each set of numbers. Show your work.

1) 21, 18, 18

Mode:
Median:

2) 14, 13, 16, 13, 15

Mode:
Median:

3) 9, 0, 3, 2, 5

Mode:
Median:

4) 12, 5, 7, 5, 15, 5

Mode:
Median:

5) Find the median and mode of the following numbers.

8, 2, 8, 3, 10, 1, 8

A) The mode is 8, and the median is 8.
B) The mode is 8, and the median is 3.
C) The mode is 10, and the median is 8.
D) The mode is 9, and the median is 3.

Name:_____ Date:_____

Mode & Median (Key)

Directions: Find the mode and median of each set of numbers. Show your work.

1) 21, 18, 18

Mode: **18**
Median: **18**

2) 14, 13, 16, 13, 15

Mode: **13**
Median: **14**

3) 9, 0, 3, 2, 5

Mode: **No mode**
Median: **3**

4) 12, 5, 7, 5, 15, 5

Mode: **5**
Median: **6**

5) Find the median and mode of the following numbers.

8, 2, 8, 3, 10, 1, 8

A) The mode is 8, and the median is 8.
B) The mode is 8, and the median is 3.
C) The mode is 10, and the median is 8.
D) The mode is 9, and the median is 3.

Name:_____ Date:_____

Range

Directions: Find the range of each set of numbers. Show your work.

1) 15, 10, 20

Range:

2) 1, 3, 2, 1, 1, 6, 7

Range:

3) 100, 85, 78, 92, 0

Range:

4) 5, 7, 15, 3, 17

Range:

5) Find the range of the following numbers.

21, 67, 88, 22, 22, 4, 100

A) 12
B) 96
C) 79
D) 22

Name:_____ Date:_____

Range (Key)

Directions: Find the range of each set of numbers. Show your work.

1) 15, 10, 20

Range: **10**

2) 1, 3, 2, 1, 1, 6, 7

Range: **6**

3) 100, 85, 78, 92, 0

Range: **100**

4) 5, 7, 15, 3, 17

Range**: 14**

5) Find the range of the following numbers.

21, 67, 88, 22, 22, 4, 100

A) 12
B) 96
C) 79
D) 22

Name:_____ Date:_____

Mean, Median, Mode, and Range Review

Directions: Find the mean, median, mode, and range of each data set.

1) 10, 0, 5, 15, 5

Mean:
Median:
Mode:
Range:

2) 8, 2, 6, 4

Mean:
Median:
Mode:
Range:

3) Compare and contrast the mode and the range.

4) Explain how we find the mean.

Name:_____ Date:_____

Mean, Median, Mode, and Range Review
(Key)

Directions: Find the mean, median, mode, and range of each data set.

1) 10, 0, 5, 15, 5

Mean: **7**
Median: **5**
Mode: **5**
Range: **15**

2) 8, 2, 6, 4

Mean: **5**
Median: **5**
Mode: **No mode**
Range: **4**

3) Compare and contrast the mode and the range.

The mode and the range are both types of averages. They are different because the mode is the number that appears the most while the range is the difference between the largest number and the smallest number.

4) Explain how we find the mean.

Add all of the numbers in the data set and divide by the number of addends.

Name:_____ Date:_____

Mean, Median, Mode, and Range Pre-Test

Directions: Describe the steps of finding each average.

1) Mean:

2) Median:

3) Mode:

4) Range:

Directions: Find the mean, median, mode, and range of the set of data below.

10, 2, 2, 1, 5

Name:_____ Date:_____

Mean, Median, Mode, and Range Pre-Test Key

Directions: Describe the steps of finding each average.

1) Mean: First, add all of the numbers in the set of data. Second, divide by the number of addends

2) Median: First, list the numbers in order from least to greatest. Second, find the number that is in the middle.

3) Mode: Find the number that appears the most.

4) Range: Subtract the smallest number from the largest number.

Directions: Find the mean, median, mode, and range of the set of data below.

10, 2, 2, 1, 5

Mean: 4 Median: 2 Mode: 2 Range: 9

Name:_____ Date:_____

Mean, Median, Mode, and Range Post Test

Directions: Describe the steps of finding each average.

1) Mean:

2) Median:

3) Mode:

4) Range:

Directions: Find the mean, median, mode, and range of the set of data below.

1, 3, 2, 3, 6

Name:_____ Date:_____

Mean, Median, Mode, and Range Post Test Key

Directions: Describe the steps of finding each average.

1) Mean: First, add all of the numbers in the set of data. Second, divide by the number of addends

2) Median: First, list the numbers in order from least to greatest. Second, find the number that is in the middle.

3) Mode: Find the number that appears the most.

4) Range: Subtract the smallest number from the largest number.

Directions: Find the mean, median, mode, and range of the set of data below.

1, 3, 2, 3, 6

Mean: 3 Median: 3 Mode: 3 Range: 5

Mean, Median, Mode, and Range Task Cards

A. The numbers '172' can be found on the back of the U.S. $5 dollar bill in the bushes at the base of the Lincoln Memorial. What is the range of the numbers 1, 7, and 2?

B. President Kennedy was the fastest random speaker in the world with upwards of 350 words per minute. What is the median of the numbers 3, 5, and 0?

C. The most common name in the world is Mohammed. If all of the names were in a data set. Mohammed would be the...

a) Mean
b) Median
c) mode
d) range

D. The international telephone dialing code for Antarctica is 672. What is the mean of the numbers 6,7, 2?

E. The smallest ten prime numbers are: 2, 3, 5, 7, 11, 13, 17, 19, 23 and 29. What is the range of this set of data?

F. Here is Pi written to 100 decimal places: 3.14159265 35

Which number is the mode?

G. The number 5 is pronounced as 'Ha' in Thai language.555 is also used by some as slang for 'HaHaHa.' Find the mean, median, mode, and range of the numbers 5, 5, 5, and 5?

H. Do you know there used to be a word in the dictionary (from 1932 to 1940), which did not have any meaning? The word was 'Dord'. It happened due to some error, this word was later known as Ghost word. What is the mode of the numbers 1, 9, 3, 2, 1, 9, 4, and 0?

Name:_____Date:_____

Mean, Median, Mode, and Range
Recording Sheet

Directions: Record your response next to the letter that matches each task card.

A.

B.

C.

D.

E.

F.

G.

H.

Name: Key Date:_____

Mean, Median, Mode, and Range Recording Sheet

Directions: Record your response next to the letter that matches each task card.

A. 6

B. 3

C. C, Mode

D. 5

E. 27

F. 5

G. Mean: 5, Median, 6, Mode 5, Range: 0

H. 9 and 1

I have…who has?

I have the first card in this series. Who has the type of average that subtracts the smallest number from the largest number?

I have the range. Who has the type of average that finds the number that appears the most?

I have the mode. Who has the type of average that adds all of the numbers and subtracts by the number of addends?

I have the mean. Who has the type of average that orders numbers from least to greatest and finds the number in the middle?

I have the median. Who has the vocabulary term for the numbers that are multiplied together?

I have factors. Who has the vocabulary term for the numbers that are added together?

I have addends. Who has the vocabulary term for what you get when you add?

I have the sum. Who has the vocabulary term for what you get when you divide?

I have the quotient. Who has the vocabulary term for what you get when you subtract?

I have the different. Who has the vocabulary term for what you get when you multiply?

I have the product. Who has the vocabulary term for the number that is being divided?

I have the dividend. Who has the vocabulary term for the number that is dividing?

I have the divisor. Who has the vocabulary term for the top number in a fraction?

I have the numerator. Who has the vocabulary term for the bottom number in a fraction?

I have the denominator. Who has the vocabulary term for what it is called when a fraction's numerator and denominator's GCF is 1?

I have the simplest form. Who has a key word that clues its reader to divide?

I have the word "shared". Who has a key word that clues its reader to multiply?

I have the word "times". Who has key words that clues its reader to subtract?

I have the words "fewer than".
Who has a key word that clues its reader to add?

I have the word "combined" and the last card in this series.

Suggested Enrichment or Remediation Activities

Activity 1:

Have students write a paragraph describing which character in the average family that they identify with the most or the character they identify with the least.

Activity 2:

Place students in 6 groups. Each group will draw a Venn diagram.

Group 1: Have students compare and contrast the mean and mode.

Group 2: Have students compare and contrast the mean and median.

Group 3: Have students compare and contrast the mean and range.

Group 4: Have students compare and contrast the mode and median.

Group 5: Have students compare and contrast the mode and range.

Group 6: Have students compare and contrast the median and range.

Suggested Enrichment or Remediation Activities

Activity 3:

In a small group, give students a deck of cards removing the Aces, Jacks, Queens, and Kings from the deck. Have the group draw 5 cards, and as a group find the mean, median, mode, and range.

Activity 4:

Place students in 4 groups. Each group will be assigned an average: Mean, median, mode, and range. Students will research each one and explain how each average is helpful in different situations. (You may also have advanced students complete this task and share findings with the rest of the class.)

Activity 5:

Either individually or in small groups, have students create a diagram showing the steps to find the mean, median, mode, and range. (You can even have students vote on the best poster to display on your wall.)

Thank you!

I really appreciate these quality freebies that allowed this product to be more polished.

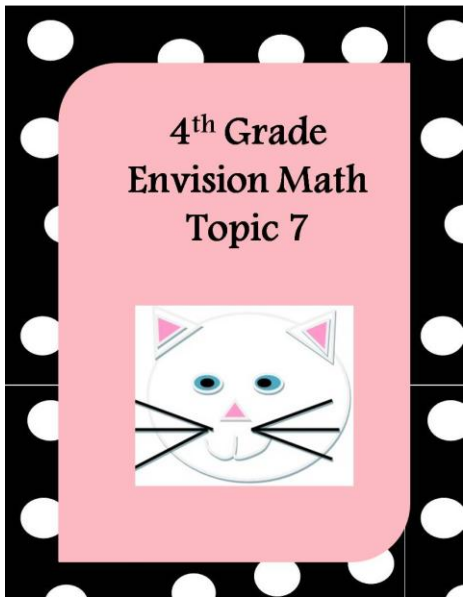
For an assortment of free fonts and other goodies:

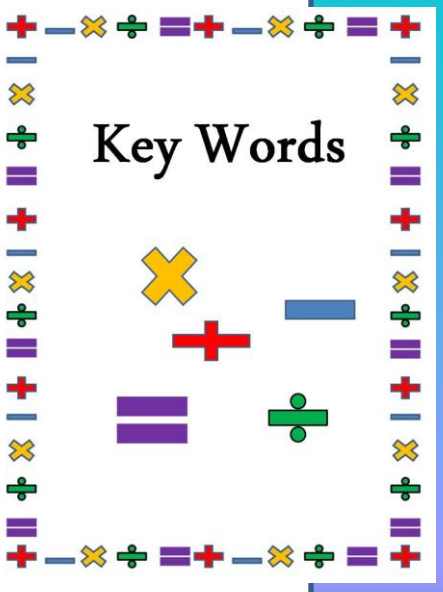
Fonts By J. Moriconi~
http://www.teacherspayteachers.com/Store/Kidsrcute

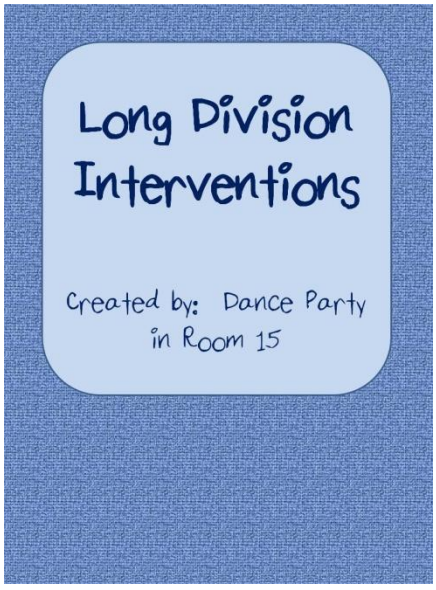
For the ribbon borders and many other neat products:

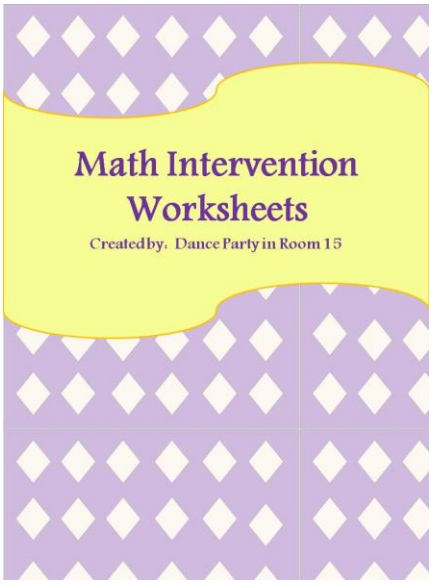
Teacher's Gumbo
http://www.teacherspayteachers.com/Store/Teachers-Gumbo

Check out my other products!









http://www.teacherspayteachers.com/Store/Dance-Party-In-Room-15