What's your Lucky Number?

A MATH RESEARCH PROJECT: GRADING CRITERIA

Completed Research Pages:	30 pts.
Poster Rough Draft:	10 pts.
Peer Evaluations x 3:	10 pts.
Poster Final Draft:	30 pts.
Self-Evaluation:	10 pts.
Overall EFFORT:	10 pts.
Total Points Possible:	**100 pts.**

*All of these items should be turned in together. If you'd like my feedback before you begin your final draft, please come see me. Teachers can provide peer evaluations, if they want to. ☺

Name: _____   Due Date: _____

What's your LUCKY NUMBER?

A MATH RESEARCH PROJECT

Directions:
- Choose any 2-digit number (11 – 99).
- Answer all the attached research questions about your number. Use the internet to help you find things you don't know.
- Create a poster that displays everything you learned about your number in a creative and colorful way.

How will I be graded?

Number Sense (10 points)
- Expanded Form
- Word Form
- Base Ten Form
- Factors
- Multiples
- Prime or Composite
- 2 Word Problems
- x 1,000
- ÷ 100

Geometry (2 points)
- Angle
- Polygon

Measurement (5 points)
- Length Conversion
- Weight Conversion
- Time Conversion
- Area
- Volume

Fun Stuff (3 points)
- Athletes
- Celebrities
- Events
- Book, Songs, or Movies
- Other cool stuff!

Presentation (10 points)
- Neatness
- Color
- Creativity
- Spelling
- Punctuation

Final Grade – 30 points

Name: _____   Due Date:_____

MY LUCKY NUMBER: [ ] research

The number 78 has been used as an example.

Part 1: Number Sense (10 points)

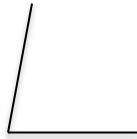|	
1) Write your number in expanded form. **70 + 8**	
2) Write your number in word form. **seventy-eight**	
3) Write your number in base ten form. **7 tens 8 ones**	
4) List all the factors of your number. **1, 2, 3, 6, 13, 26, 39, 78**	
5) List the first 10 multiples of your number. **78, 156, 234, 312, 390, 468, 546, 624, 702, 780**	
6) Is your number prime or composite? Why? **78 is a composite number because it has more than two factors.**	
7) Write a word problem that includes your number. Include the answer. **Denise made 78 friendship bracelets. She sold each bracelet for $3. How much money did Denise earn selling bracelets? $234**	
8) Write a word problem with your number as the answer. **Max earned $35 babysitting on Monday and $43 babysitting on Tuesday. How much did Max earn babysitting? $78**	
9) Multiply your number by 1,000. **78 x 1,000 = 78,000**	
10) Divided your number by 100. **78 ÷ 100 = 0.78**	

Name: _____

Due Date:_____

MY LUCKY NUMBER: ☐ research
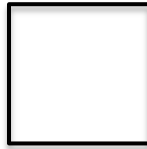
The number 78 has been used as an example.

Part 2: Geometry (2 points)

1) Draw an angle with your number in degrees.	
2) Is there a name for a polygon with this number of sides? If not, make one up! ***70 sides- heptacontagon*** ***8 sides- octagon*** ***78 sides- heptacontaoctagon***	

Part 3: Measurement (5 points)

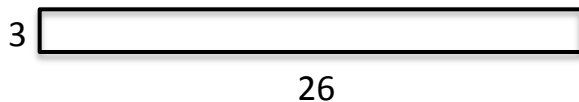|	
1) Write any length measurement conversion involving your number. ***78 feet = 936 inches*** Hint: There are 12 inches in 1 foot.	
2) Write any weight measurement conversion involving your number. ***78 kilograms = 78,000 grams*** Hint: There are 1000 kilograms in 1 gram.	
3) Write any time measurement conversion involving your number. ***78 years = 28,470 days***	
4) Draw a rectangle with an area of your number. Area = length x width 3 ▭ 26	
5) Draw a rectangular prism with a volume of your number. Volume = length x width x height 2 ▱ 3 13	
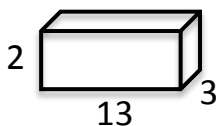
MY LUCKY NUMBER: ☐   research

The number 78 has been used as an example.

Part 4: Fun Stuff! (3 points)

1) Do any famous athletes wear your number on their jersey? **Number 78- Richmond Webb, Bruce Smith Bobby Bell, Anthony Munoz**	
2) What celebrities were born in this year? **Born in 1978- Kobe Bryant, Rachel McAdams, Usher, Ashton Kutcher, Tia and Tamera Mowery**	
3) What celebrities are this age? **Celebrities who are 78 years old- Christopher Lloyd, Ian McKellen, Jon Voight, Gary Paulsen,**	
4) What events happened in this year? **In 1978- Smallpox eradicated, First in vitro birth In 1878- Thomas Edison patents the phonograph**	
5) Do any songs, movies, books, or TV shows include your? **Movies- The 78 Project Movie, 78/52**	
6) What else is cool about your number? **There are 78 cards in a tarot deck.** **78 total gifts are given in the song 'The 12 days of Christmas.'** **The Monaco Grand Prix completes 78 laps.** **78 is an abundant number which means the sum of its factors (other than 78) is greater than 78.** **1+ 2 + 3 + 6 + 13 + 26 + 39 = 90**	

Rough Draft of Poster (10 pts)

Before you begin your poster on large paper, please sketch out a rough draft of how you will lay out your poster to include all of the grading criteria.

What's your LUCKY NUMBER?

PEER EVALUATION FOR: _____

Evaluator's Name:

Glow:	Grow:	Something cool I learned about this number:

Evaluator's Name:

Glow:	Grow:	Something cool I learned about this number:

Evaluator's Name:

Glow:	Grow:	Something cool I learned about this number:

What's your LUCKY NUMBER?

A MATH RESEARCH PROJECT: **SELF-EVALUATION**

Student Name: _____

Final Grade: ___/30

Number Sense: ___/10 points
- ❑ Expanded Form
- ❑ Word Form
- ❑ Base Ten Form
- ❑ Factors
- ❑ Multiples
- ❑ Prime or Composite
- ❑ 2 Word Problems
- ❑ x 1,000
- ❑ ÷ 100

Geometry: ___/2 points
- ❑ Angle
- ❑ Polygon

Measurement: ___/5 points
- ❑ Length Conversion
- ❑ Weight Conversion
- ❑ Time Conversion
- ❑ Area
- ❑ Volume

Fun Stuff: ___/3 points
- ❑ Athletes
- ❑ Celebrities
- ❑ Events
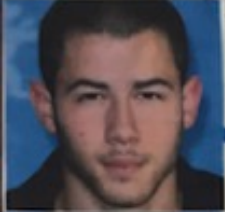- ❑ Book, Songs, or Movies
- ❑ Other cool stuff!

Presentation ___/10 points
- ❑ Neatness
- ❑ Color
- ❑ Creativity
- ❑ Spelling
- ❑ Punctuation

Comments:

Celebrities who are 24 yrs old. ↓

Nick Jonas

Odell Beckham Jr.

Selena Gomez

Demi Lovato

Icositetragon
Polygon with 24 sides

Books
"Four and twenty blackbirds baked in a pie." - Nursery Rhyme

Q: Jodie walked 3 miles per day for 8 days. How far did Jodie walk in all?
A: Jodie walked 24 miles.

$24 \div 100 = 0.24$
$24 \times 1,000 = 24,000$

24 miles = 126,720 feet
24 Tons = 48,000 pounds
24 years = 8,760 days
24 hours = 1 day

Factors of 24
1, 2, 3, 4, 6, 8, 12, 24
24 is the smallest number with 8 factors.

The '24 Olympics will take place in Paris or Los Angeles.

Multiples of 24
24, 48, 72, 96, 120, 144, 168, 192, 216, 240...

24
Thirty-four   2014   2,005 4/022

24 Points in a game of backgammon

TV Show ←

24 is the atomic number of Chromium.

Area = 24.

Volume = 24.

24 is a **composite number** because it has more than two factors. 24 is also the **SUM of PRIME twins** 11 + 13 = 24

Q: Steven ordered 24 calculators for his Math club. Each calculator cost $17. How much did Steven spend in all?
A: Steven spent $408.

A 24° Degree Angle

24 HOUR FITNESS
A popular gym
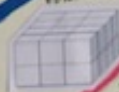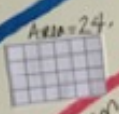
Interstate 24 runs from Marion, IL to Chattanooga, TN.

INTERSTATE 24

100% pure gold = 24 Carats

Athletes who wear #24

Kobe Bryant

Tim Howard

Marshawn Lynch

Ken Griffey Jr.