

Name: \_\_\_\_\_

Due Date: \_\_\_\_\_

# What's your **LUCY 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
- $\times 1,000$
- $\div 100$

### 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: \_\_\_\_\_

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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*

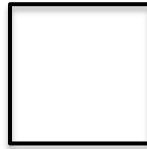
9) Multiply your number by 1,000.  
*78 x 1,000 = 78,000*

10) Divided your number by 100.  
*78 ÷ 100 = 0.78*

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MY LUCKY NUMBER:

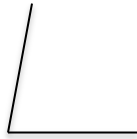


research

*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- heptacontaogon*

### Part 3: Measurement (5 points)

- 1) Write any length measurement conversion involving your number.

*78 feet = 936 inches*

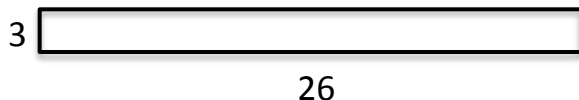
- 2) Write any weight measurement conversion involving your number.

*78 kilograms = 78,000 grams*

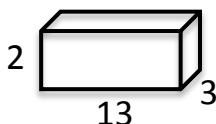
- 3) Write any time measurement conversion involving your number.

*78 years = 28,470 days*

- 4) Draw a rectangle with an area of your number.



- 5) Draw a rectangular prism with a volume of your number.



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*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.  
 $1 + 2 + 3 + 6 + 13 + 26 + 39 = 90$*