Fabulous Four

What are the numbers that fit?

1. Four different positive numbers that add to 16.

\[ \square + \square + \square + \square = 16 \]

The same four numbers have a product of 105.

\[ \square \times \square \times \square \times \square = 105 \]

2. Four different positive numbers add to 26.

\[ \square + \square + \square + \square = 26 \]

The same four numbers have a product of 900.

\[ \square \times \square \times \square \times \square = 900 \]
Splendid Symmetry

Use the letters.

Order the shapes by number of lines of symmetry, from has the most to has the least.

Greatest       Least

Number Vowels

What percent of the word names for the numbers 1 through 20 have:

a) 4 vowels? __________
b) 3 vowels? __________
c) 2 vowels? __________
d) 1 vowel? __________
CATS

<table>
<thead>
<tr>
<th>Row 1</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Row 2</td>
<td>CA</td>
</tr>
<tr>
<td>Row 3</td>
<td>CAT</td>
</tr>
<tr>
<td>Row 4</td>
<td>CATC</td>
</tr>
<tr>
<td>Row 5</td>
<td>CATCA</td>
</tr>
<tr>
<td>Row 6</td>
<td>CATCAT</td>
</tr>
<tr>
<td>Row 7</td>
<td>CATCATC</td>
</tr>
</tbody>
</table>

The pattern continues. In Row 120, how many:

1. Vowels?
2. CAT’s?

Cat’s Meow

M E O W M E O W M E O W M E O W M E O W M E ...
1 2 3 4 5 6 7 8 9 10 11 12 13 14 ...

The MEOW pattern continues. In the first 161 letters, how many:

1. M’s?
2. Vowels?
3. MEOWs?
Math in History: Muppet Math

On November __A__, __B__, “Kermit the Frog,” Jim Henson’s first muppet was copyrighted.

The first muppet television show, *The Muppet Show*, appeared 21 years later in ____C__. The Disney produced *The Muppet Movie* was released 3 years later in ____D__.

Clues:

Day A:
- The only even prime number.

Year B:
- The years is a multiple of 5.
- The sum of the thousands and hundreds digit is 10.
- The sum of the tens and ones digits is 10.