

**Math 155 Chapter 1 – Math and the Internet
Sample Test**

1. What is the difference between a number and a numeral? Give examples.
2. Give four reasons why the Hindu-Arabic (decimal) system of numeration has become the universally used system.
3. Explain the difference between a kilobit (Kb) and a kilobyte (KB).

Write **954** in each of the following systems of numeration.

- | | |
|----------------|----------------|
| 4. Egyptian | 5. Roman |
| 6. Chinese | 7. Attic Greek |
| 8. Ionic Greek | 9. Mayan |
| 10. Babylonian | 11. Base 5 |
| 12. Base 16 | |

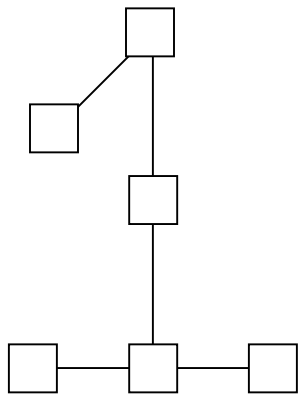
13. Find one solution for the alphametic:

$$\begin{array}{r}
 S \ E \ E \\
 + \ S \ A \ W \\
 \hline
 K \ I \ D \ S
 \end{array}$$

Use one-digit round-off techniques to estimate the following computations.

- | | |
|-----------------------------|------------------------------|
| 14. $67,897 \times 547,967$ | 15. $43,897,780 \div 48,474$ |
|-----------------------------|------------------------------|

16. Place the numbers $\{1, 2, 3, 4, 5, 6\}$ in the boxes on the number “1” so that the sum of the numbers on each segment is the same.



Use Vedic methods to do the following computations. (Show what you did with the numbers.)

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|--------------------|------------|
| 17. 43×62 | 18. 85^2 |
|--------------------|------------|

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