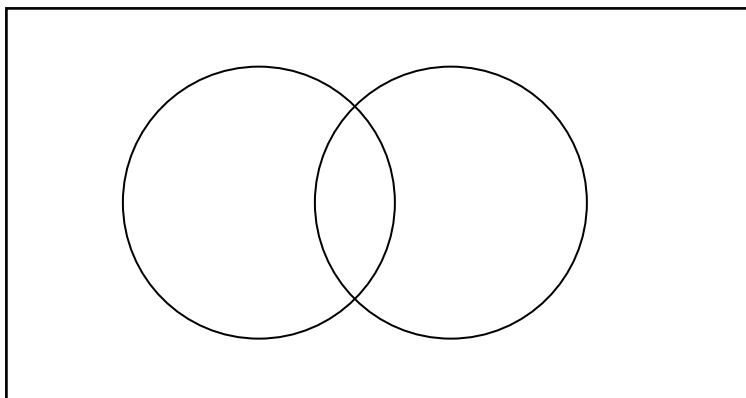


1. Given the sets $A = \{2,4,6,8,10\}$, $B = \{5,6,7,8\}$, and the universal set $U = \{x \mid 1 \leq x \leq 10\}$:

a. Draw a Venn diagram to represent these sets listing the elements in each part of each set.



b. $A \cap B = \{ \quad \quad \quad \}$

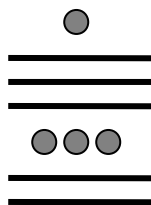
c. $\bar{A} = \{ \quad \quad \quad \}$

d. $n(A \times B) = \underline{\hspace{2cm}}$

6pts

2. Convert each of the following into a base ten number.

a.



b. MDCCXLVII

6pts

3. Convert each of the following into a numeral for the ancient system indicated.

a. Write 582 as an Egyptian number.

b. Write 582 as a Babylonian number.