

Name - _____

Start time - __: __

End time - __: __

Solve the following:

1. List the elements of the following sets:
 - a) $A = \{\text{months of the year with fewer than 31 days}\}$
 - b) $B = \{\text{months of the year with fewer than 4 letters in their name}\}$
 - c) $C = \{\text{months of the year with the letter a in their name}\}$

2. List the elements of the following sets:
 - a) $A = \{\text{even numbers between 11 and 25}\}$
 - b) $B = \{\text{prime numbers less than 20}\}$
 - c) $C = \{\text{square numbers less than 200}\}$
 - d) $D = \{\text{factors of 30}\}$

3.
 - a) List the members of set A, where $A = \{\text{days of the week with the letter u in their name}\}$.
 - b) Write down the number of elements in set A.
 - c) Is Monday a member of the set?

4.
 - a) If $\varepsilon = \{x: x \text{ is a positive integer, } x \leq 10\}$, list all the elements of:
 - (i) $A = \{x: x \text{ is odd}\}$
 - (ii) $C = \{x: x \text{ is a square number}\}$
 - (iii) $B = \{x: x \text{ is a factor of 16}\}$
 - (iv) $D = \{x: x \text{ is a factor of 30}\}$
 - b) If $\varepsilon = \{x: x \text{ is an integer, } 20 \leq x \leq 30\}$, list all the elements of:
 - (i) $A = \{x: x \text{ is odd}\}$
 - (ii) $C = \{x: x \text{ is prime}\}$
 - (iii) $B = \{x: x \text{ is even}\}$
 - (iv) $D = \{x: x \text{ is a multiple of 3}\}$