

Start Tasks



Identify elements of a set and use $\in$ / $\notin$ notation.

1. $\xi = \{1, 2, 3, \dots, 12\}$.
 $A = \{3, 6, 9, 12\}$ (multiples of 3). Is
 $6 \in A$? Is $8 \in A$?

2. Using the same set A , write
“ $10 \notin A$ ” in words.

3. Write the set
 $B = \{\text{even numbers from 1 to 10}\}$
using roster notation $\{ \}$.

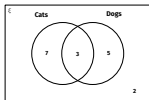
4. What does the symbol $\emptyset$
represent? Give an example of a set
equal to $\emptyset$.

Start Tasks



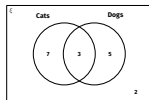
Read cardinalities directly off a Venn diagram using set notation.

5.



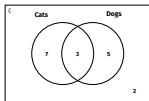
State $n(\text{Cats})$ for this diagram.

6.



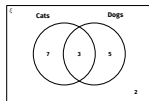
State $n(\text{Cats} \cap \text{Dogs})$.

7.



State $n(\text{Cats} \cup \text{Dogs})$.

8.



State $n(\text{Dogs}') \text{ (not Dogs)}$.