## ON YOUR OWN:

State, whether each pair of sets, given below, is equal or equivalent sets.

1. $\{3,5,7\}$ and $\{5,3,7\}$
2. $\{8,6,10,12\}$ and $\{3,2,4,6\}$
3. $\{7,7,2,1,2\}$ and $\{1,2,7,2,7\}$
4. $\{1,4,9,16,25\}$ and $\left\{1^{2}, 2^{2}, 3^{2}, 4^{2}, 5^{2}\right\}$
5. $\{a, b, c, d\}$ and $\{\Delta, 0, \square, \nabla\}$

6. \{Natural numbers less than five\} and \{Letters of the word 'BOAT'\}
$\square$
7. $\{2,4,6,8,10\}$ and $\{$ even natural numbers less than 12$\}$

8. \{Days of the week\} and \{Letters of the word 'HONESTY\}

9. $\{1,3,5,7, \ldots\}$ and $\{$ set of odd natural numbers $\}$

10. \{Even natural numbers\} and \{Odd natural numbers\}

Identify all the empty sets or null sets by ticking the appropriate box(es).

| SETS | SETS |  |
| :--- | :--- | :--- |
| \{50th day of the month\} |  | \{ducks that talk\} |
| \{colours of the rainbow\} | $\begin{array}{l}\text { \{Ships that brought the } \\ \text { mixed race to Guyana\} }\end{array}$ |  |
| \{children's favourite foods\} | \{cows that eat meat\} |  |$\}$

## HOMEWORK

## Study the following sets carefully.

1. \{counting numbers between 5 and 6 \}
2. \{odd numbers between 7 and 19\}
3. \{odd numbers between 7 and 9$\}$
4. $\{$ even numbers which are not divisible by 2$\}$.
5. $\{0\}$
6. \{ \}
7. $\{$ Prime numbers between 7 and 11$\}$
8. \{Month having more than 31 days\}
9. \{Prime numbers divisible by 2 \}
10. \{Negative natural numbers\}
11. \{Women who are 5 meter tall\}
12. \{Men with four legs\}
13. $\{$ Integers less than 5$\}$
14. \{A week having 10 days\}
15. \{Prime numbers between 17 and 23\}
16. $\{$ Set of even numbers, not divisible by 2$\}$
17. \{Set of multiples of 3 , which are more than 9 and less than 15$\}$

## From the sets above:

(a) Make a list of all the empty sets
(b) Identify at least three pairs of equivalent sets.
(c) List at least two pairs of equal sets.

