

Subsets and equal sets

Write $\subseteq or \nsubseteq in each blank to form a true statement. Also check if A = B$

- 3) A = { x| x is a planet of Earth's solar system}B = {Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, Neptune}A B
- 4) A = { x | x is a day of the week} B = {Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday} A____B
- **5)** { x | x is a man} ____ { x | x is a person}

6)
$$A = \{ x \mid x \in N \text{ and } 5 < x < 12 \}$$

 $B = \{ x \mid x \in N \text{ and } 2 \le x \le 11 \}$
 A _____B



Answers

- **1)** $A \subseteq B$; not equal
- **2)** A ⊈ B ; not equal
- 3) $A \subseteq B$; not equal
- **4)** $A \subseteq B$; not equal
- **5)** ⊆ ; equal
- **6)** \subseteq ; not equal
- **7)** ⊆ ; equal
- **8)** ⊈ ; not equal