

Eigenschaftsdefinition

$$M = \{ x \in \text{Welt} \mid \text{Bedingung} \}$$

↙
variable

↘
mathematische

1) alle Zahlen, die durch 3 teilbar sind.

$$M_3 = \{ \dots -9; -6; -3; 0; 3; 6; 9 \dots \}$$

$$M_3 = \{ x \in \mathbb{Z} \mid x \bmod 3 = 0 \}$$

$$2) \{x \in \mathbb{Z} \mid x \bmod 4 = 0 \vee x \bmod 5 = 0\}$$

$$3) \{x \in \mathbb{Z} \mid x \bmod 3 \Leftrightarrow 0\}$$

$$4) \{x \in]4; 42[_{\mathbb{N}} \mid x \bmod 6 \Leftrightarrow 0\}$$

$$\{x \in \mathbb{N} \mid x > 4 \wedge x < 42 \wedge x \bmod 3 \Leftrightarrow 0 \wedge x \bmod 2 \Leftrightarrow 0\}$$

$$5) \{x \in \mathbb{N}^{>42} \mid x \bmod 7 = 0 \wedge x \bmod 3 \Leftrightarrow 0\}$$

$$M = \{ a; \{b; c\}; \{d\} \}$$

$$\{d\} \subset M \rightarrow d \in M \quad f \text{ Falsch}$$

$$\{\{b\}\} \subset M \rightarrow \{b\} \in M \quad f \{b; c\}$$

$$\{a\} \subset M \rightarrow a \in M \quad \checkmark$$

$$\underbrace{\{x \in [1; 10]_{\mathbb{N}}\}}_{\text{Menge}} \setminus \underbrace{\{9\}}_{\text{Menge}}$$

$$|A| = 70$$

$$|B| = 100$$

$$|C| = 90$$

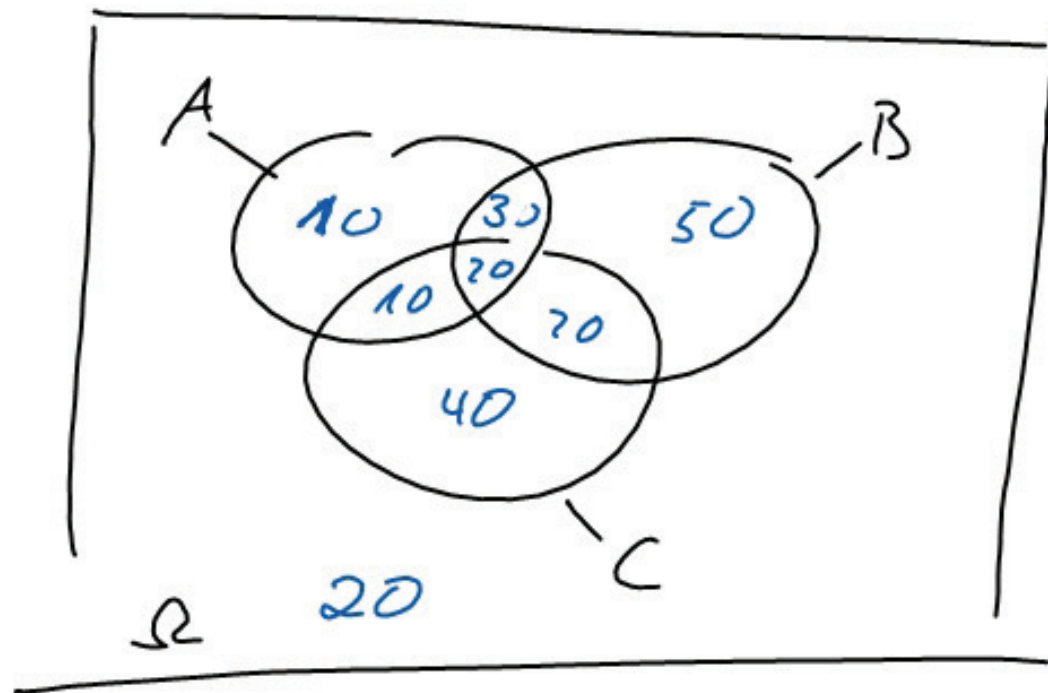
$$n = 200$$

$$|A \cap B| = 50$$

$$|A \cap C| = 30$$

$$|B \cap C| = 40$$

$$|A \cap B \cap C| = 20$$



$$\overline{3 + 5} = \overline{8}$$

$$\overline{3} - \overline{5} = 42 - 34 = 8$$
