

Set of Prime Numbers P_u and set of Products of Prime Numbers ($P_u \times P_u$):

$$P_u \cup (P_u \times P_u)$$

$$P_u = (P \cup \{1\}) \setminus \{2, 3, 5, 7\}$$

$$(P_u \cap (P_u \times P_u)) = \{1\}$$

Primary Set:	$(P_u \cup (P_u \times P_u))$	
Subsets:	$(P_u \cup (P_u \times P_u))_{11}$	$(P_u \cup (P_u \times P_u))_{13}$
Primary Numbers:	11	13
Main series:	$6n + 5$	$6n + 7$
Main Sets:	$(6N + \{5\}) =$ $= (6N5 + \{5\})$ $\cup (6N5 + \{5\})$	$(6N + \{7\}) =$ $= (6N7 + \{7\})$ $\cup (6N7 + \{7\})$
Subsets:	$(6N5 + \{5\}) =$ $= (6(N2 \cup N3 \cup N7 \cup (P \cup \{1\}) \cup (P_u \times P_u)) + \{5\}) =$ $= (6(N2 + \{1\}) - \{1\})$ $\cup (6(N3 + \{1\}) - \{1\})$ $\cup (6(N7 + \{1\}) - \{1\})$ $\cup (6((P \cup \{1\}) + \{1\}) - \{1\})$ $\cup (6((P_u \times P_u) + \{1\})) - \{1\}$	$(6N7 + \{7\}) =$ $= (6(N2 \cup N3 \cup N5 \cup (P \cup \{1\}) \cup (P_u \times P_u)) + \{7\}) =$ $= (6(N2 + \{1\}) + \{1\})$ $\cup (6(N3 + \{1\}) + \{1\})$ $\cup (6(N5 + \{1\}) + \{1\})$ $\cup (6((P \cup \{1\}) + \{1\})) + \{1\}$ $\cup (6((P_u \times P_u) + \{1\})) + \{1\}$

<p>Subsets and subseries of sets:</p> <p>$(P \cup (P \times P))_{11}$</p> <p>$(P \cup (P \times P))_{13}$</p>	$6(N2 + \{1\}) - \{1\} =$ $= 6(2n + 3) - 1 =$ $= 12n + 17$ $n \in \mathbb{N}$	$6(N2 + \{1\}) + \{1\} =$ $= 6(2n + 3) + 1 =$ $= 12n + 19$ $n \in \mathbb{N}$
	$(6(N3 + \{1\}) - \{1\}) =$ $= 6(6n + 4) - 1 =$ $= 36n + 23$ $n \in \mathbb{N}$	$(6(N3 + \{1\}) + \{1\}) =$ $= 6(6n + 4) + 1 =$ $= 36n + 25$ $n \in \mathbb{N}$
	$6(N7 + \{1\}) - \{1\} =$ $= 6(14n + 35) - 1 =$ $= 84n + 209$ $n \neq 5k$ $n \neq 6k + 2$ $k \in (\mathbb{N} \cup \{0\})$	$6(N5 + \{1\}) + \{1\} =$ $= 6(10n + 16) + 1 =$ $= 60n + 97$ $n \neq 3k$ $k \in \mathbb{N}$
	$(6((P \cup \{1\}) + \{1\})) - \{1\} =$ $= 6(P \cup \{1\}) + \{5\} =$ $= \{11\} \cup 6(P + \{1\}) - \{1\}$	$(6((P \cup \{1\}) + \{1\})) + \{1\} =$ $= 6(P \cup \{1\}) + \{7\} =$ $= \{13\} \cup (6P + \{1\}) + \{1\}$
	$(6((P \times P) + \{1\})) - \{1\} =$ $= 6((P \times P) + \{1\}) - \{1\}$	$(6((P \times P) + \{1\})) + \{1\} =$ $= 6((P \times P) + \{1\}) + \{1\}$
<p>Exclusion:</p> <p>Subseries of sets: N3, N5, N7 partly common with series: $6n + 5, 6n + 7$</p>	$18n + 15$ $30n + 25$ $42n + 35$ $n \in \mathbb{N}$	$18n + 21$ $30n + 35$ $42n + 49$ $n \in \mathbb{N}$