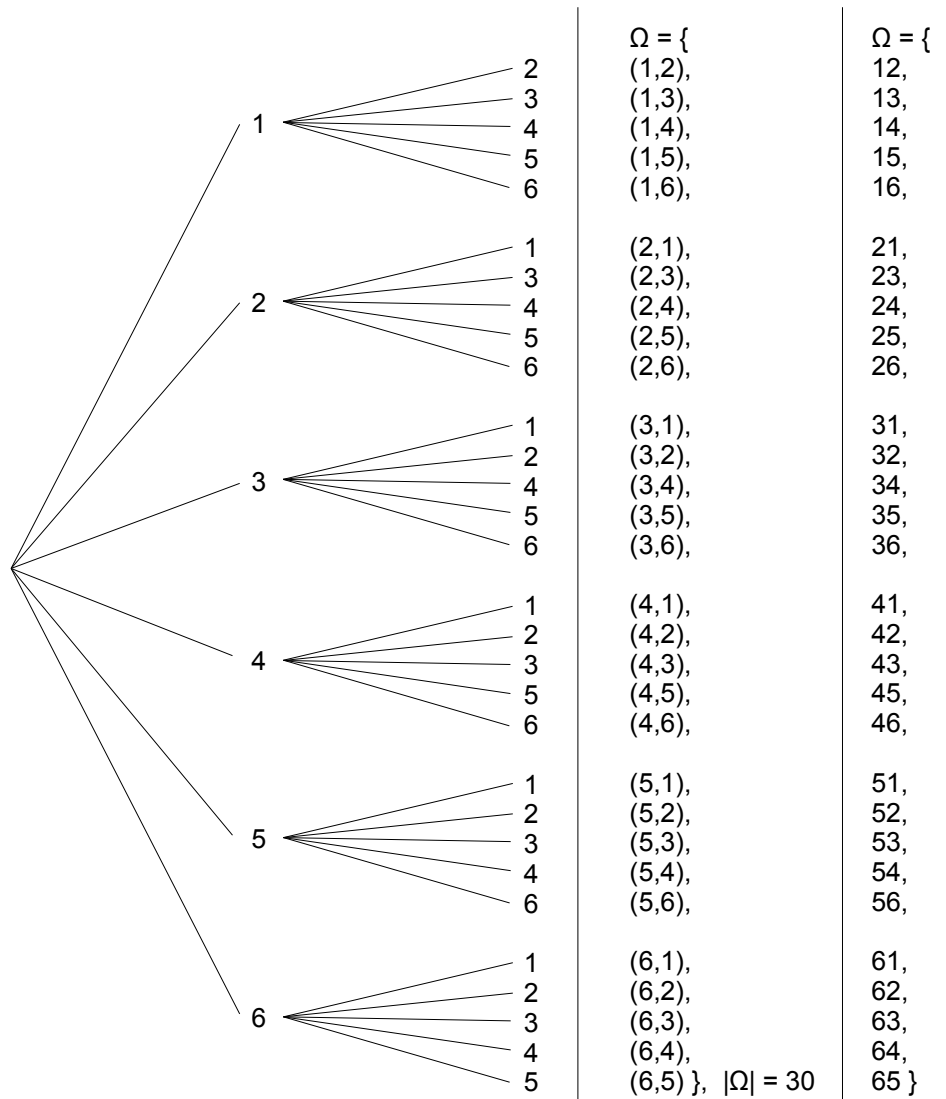


Arbeitsblatt „Rechnen mit
Wahrscheinlichkeiten“,
Aufgabe 4

20.11.2009 Eßer



A: Summe < 7
 $A = \{ 12, 13, 14, 15, 21, 23, 24, 31, 32, 41, 42, 51 \}$

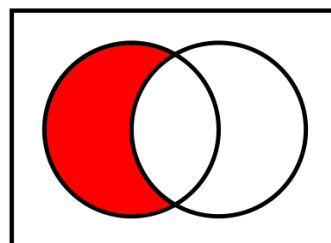
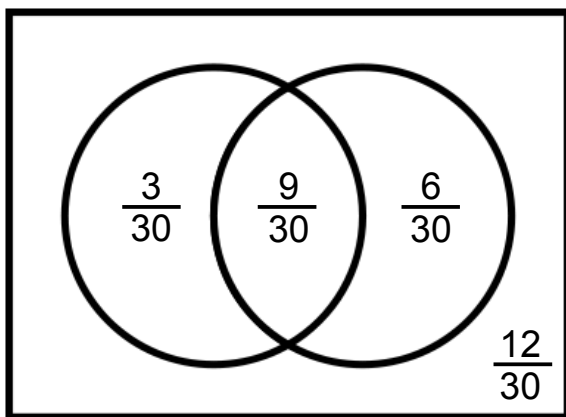
$|A| = 12, P(A) = 12 / 30$

B: Erste Zahl < 4
 $B = \{ 12, 13, 14, 15, 16, 21, 23, 24, 25, 26, 31, 32, 34, 35, 36 \}$

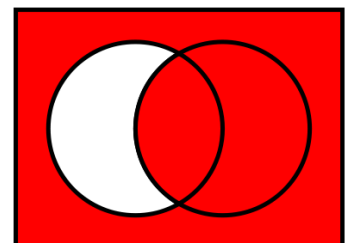
$|B| = 15, P(B) = 15 / 30$

$A \cup B = \{ 12, 13, 14, 15, 16, 21, 23, 24, 25, 26, 31, 32, 34, 35, 36, 41, 42, 51 \}$

$|A \cup B| = 18, P(A \cup B) = 18 / 30$



$A \cap \bar{B}$



$\overline{A \cup B} = C$

$P(C) = 1 - 3/30 = 27/30$

$P(A \setminus B) = P(A \cup B) - P(B) = 3/30$
 $P(B \setminus A) = P(A \cup B) - P(A) = 6/30$
 $P(A \cap B) = 1 - (12+3+6) / 30 = 9 / 30$