

LÖSUNG ZU 953):

a) $\Omega = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12\}$

$\neg E$: Die Augenzahl ist höchstens 8. = $\{1, 2, 3, 4, 5, 6, 7, 8\}$

$$P(E) = \frac{4}{12} \qquad P(\neg E) = 1 - \frac{4}{12} = \frac{8}{12}$$

b) $\Omega = \{1, 2, 3, 4, 5, 6\}$

$\neg E$: Die Augenzahl ist mindestens 5. = $\{5, 6\}$

$$P(E) = \frac{4}{6} \qquad P(\neg E) = 1 - \frac{4}{6} = \frac{2}{6}$$

c) $\Omega = \{0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36\}$

$\neg E$: Die Zahl ist nicht ungerade. = $\{0, 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36\}$

$$P(E) = \frac{18}{37} \qquad P(\neg E) = 1 - \frac{18}{37} = \frac{19}{37}$$

