

P.6

① 標本空間 $\{HH, HT, TH, TT\}$

根元事象 HH, HT, TH, TT の4つ

② $\{HT\}$

③ $\{HH, HT, TH\}$

P.9

① $P(\{HT\}) = \frac{1}{4}$

② $P(\{HH, TH\}) = \frac{2}{4} = \frac{1}{2}$

③ $P(\{HH, HT, TH\}) = \frac{3}{4}$

P.15

① $X(\square) = \frac{1}{2}, X(\square) = \frac{2}{2} = 1, X(\square) = \frac{3}{2},$
 $X(\square) = \frac{4}{2} = 2, X(\square) = \frac{5}{2}, X(\square) = \frac{6}{2} = 3$

② $Y(HH) = 2, Y(HT) = 1, Y(TH) = 1, Y(TT) = 0$

P.18

① $E[X] = \frac{1}{6} \times \frac{1}{2} + \frac{1}{6} \times 1 + \frac{1}{6} \times \frac{3}{2} + \frac{1}{6} \times 2 + \frac{1}{6} \times \frac{5}{2} + \frac{1}{6} \times 3$
 $= 1.75$

② $E[Y] = \frac{1}{4} \times 2 + \frac{1}{4} \times 1 + \frac{1}{4} \times 1 + \frac{1}{4} \times 0 = 1$