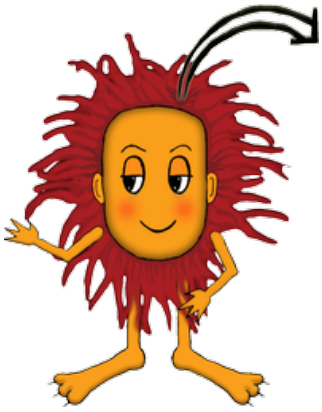
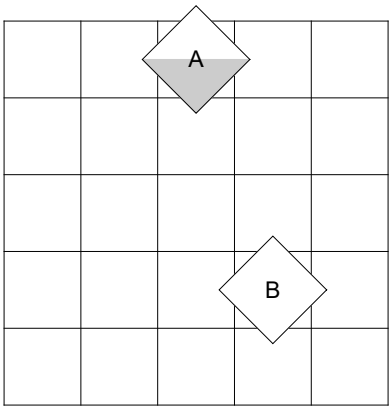
Velika logična pošast



Popolna in pogojna verjetnost

V danem svetu je slučajno izbran en lik, X. 1. Koliko je verjetnost dogodka S, da je izbran lik a) trikotnik; b) kvadrat; c) da je izbran lik bel? 2. Recimo, da se je dogodek S iz prejšnjega vprašanja zgodil. Koliko je verjetnost, da je bil izbran lik A? 3. Enako vprašanje za lik B. Krog pomeni, da ne poznamo oblike, ki je lahko trikotnik, kvadrat ali petkotnik. Pol siv lik pa pomeni, da ne poznamo barve, ki je lahko bela ali siva. Če je verjetnost dogodka S enaka 0, potem pogojna vrednost ni določena (pišemo U).

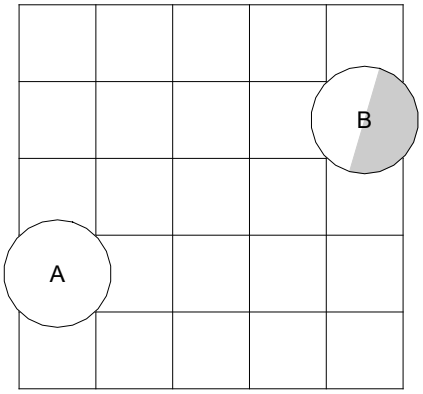
naloga+rešitev



S	P(S)	P(X = A | S)	P(X = B | S)
bel(X)	$\frac{3}{4}$	$\frac{1}{3}$	$\frac{2}{3}$
siv(X)	$\frac{1}{4}$	1	0
¬ trikotnik(X)	1	$\frac{1}{2}$	$\frac{1}{2}$
¬ siv(X)	$\frac{3}{4}$	$\frac{1}{3}$	$\frac{2}{3}$
siv(X) ∧ trikotnik(X)	0	U	U
bel(X) ∧ kvadrat(X)	$\frac{3}{4}$	$\frac{1}{3}$	$\frac{2}{3}$
siv(X) ∨ trikotnik(X)	$\frac{1}{4}$	1	0
siv(X) ∨ kvadrat(X)	1	$\frac{1}{2}$	$\frac{1}{2}$

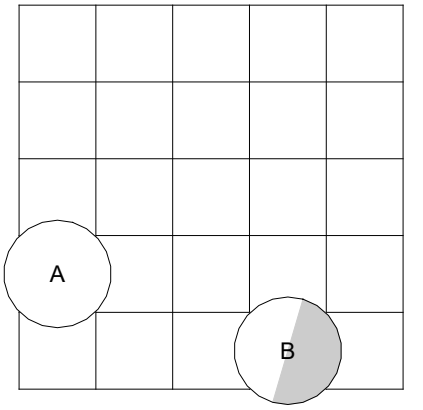
MATHEMA

1.



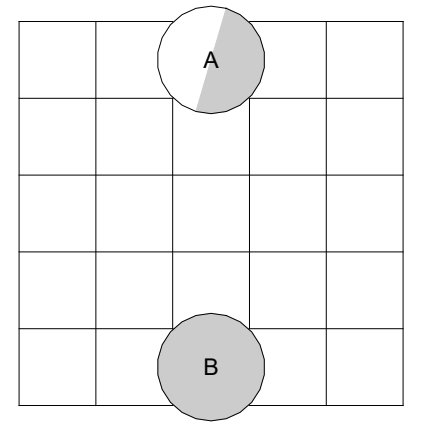
S	P(S)	P(X = A | S)	P(X = B | S)
trikotnik(X)			
petkotnik(X)			
¬ kvadrat(X)			
¬ siv(X)			
siv(X) ∨ kvadrat(X)			
bel(X) ∨ kvadrat(X)			
bel(X) ∨ trikotnik(X)			
siv(X) ∧ kvadrat(X)			

2.



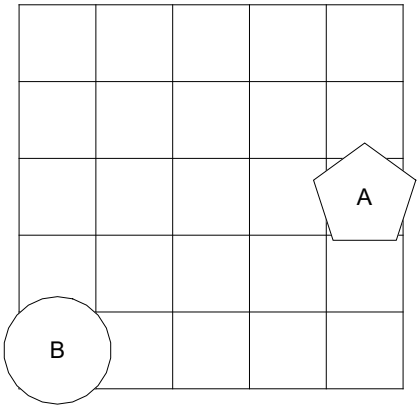
S	P(S)	P(X = A | S)	P(X = B | S)
trikotnik(X)			
petkotnik(X)			
¬ siv(X)			
¬ trikotnik(X)			
bel(X) ∨ petkotnik(X)			
siv(X) ∧ petkotnik(X)			
bel(X) ∧ petkotnik(X)			
siv(X) ∧ kvadrat(X)			

3.



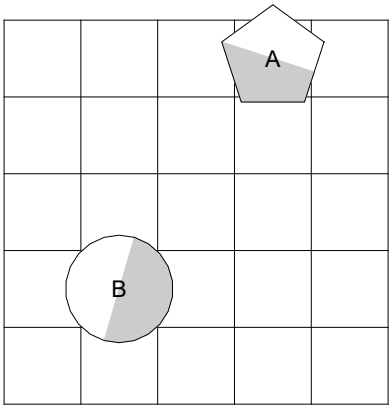
S	P(S)	P(X = A | S)	P(X = B | S)
kvadrat(X)			
petkotnik(X)			
¬ petkotnik(X)			
¬ siv(X)			
siv(X) ∧ petkotnik(X)			
bel(X) ∨ petkotnik(X)			
bel(X) ∨ kvadrat(X)			
siv(X) ∧ kvadrat(X)			

4.



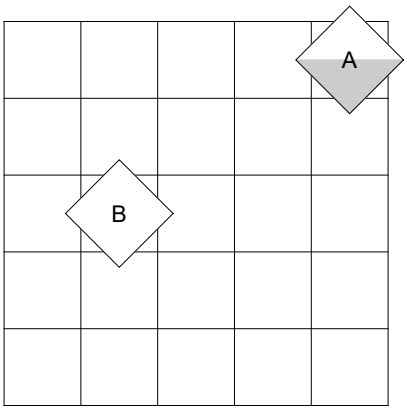
S	P(S)	P(X = A | S)	P(X = B | S)
trikotnik(X)			
siv(X)			
¬ siv(X)			
¬ bel(X)			
bel(X) ∨ kvadrat(X)			
siv(X) ∨ kvadrat(X)			
bel(X) ∧ kvadrat(X)			
siv(X) ∨ petkotnik(X)			

5.



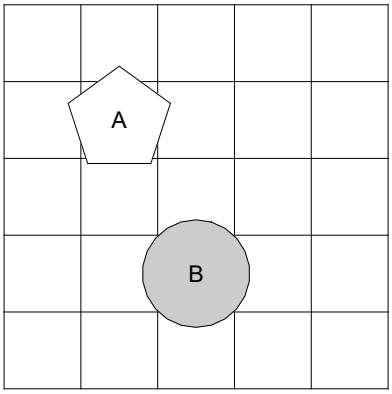
S	P(S)	P(X = A | S)	P(X = B | S)
petkotnik(X)			
bel(X)			
¬ kvadrat(X)			
¬ bel(X)			
bel(X) ∧ petkotnik(X)			
siv(X) ∨ trikotnik(X)			
siv(X) ∨ petkotnik(X)			
siv(X) ∧ kvadrat(X)			

6.



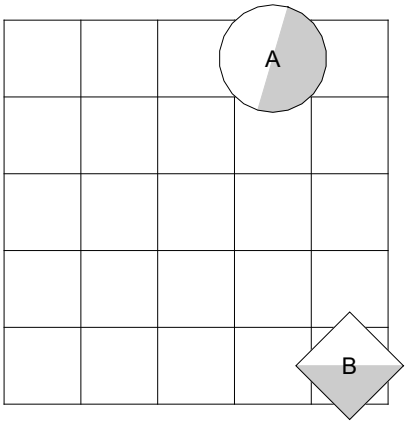
S	P(S)	P(X = A | S)	P(X = B | S)
trikotnik(X)			
petkotnik(X)			
¬ siv(X)			
¬ petkotnik(X)			
bel(X) ∧ kvadrat(X)			
siv(X) ∧ trikotnik(X)			
siv(X) ∧ kvadrat(X)			
siv(X) ∨ kvadrat(X)			

7.



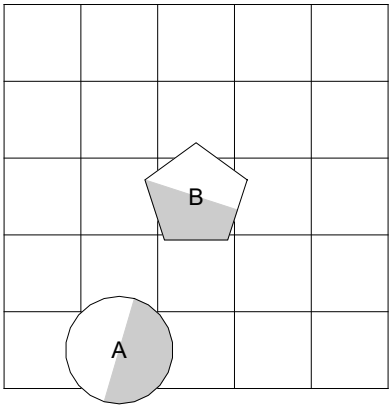
S	P(S)	P(X = A | S)	P(X = B | S)
petkotnik(X)			
siv(X)			
¬ siv(X)			
¬ petkotnik(X)			
bel(X) ∨ petkotnik(X)			
siv(X) ∨ petkotnik(X)			
siv(X) ∨ kvadrat(X)			
bel(X) ∧ petkotnik(X)			

8.



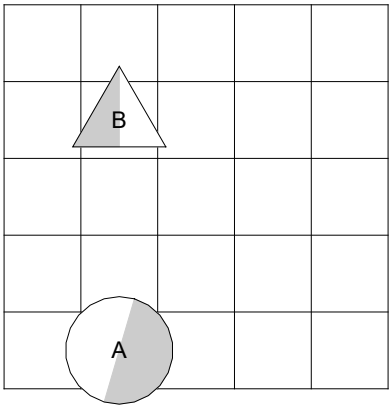
S	P(S)	P(X = A | S)	P(X = B | S)
siv(X)			
petkotnik(X)			
¬ bel(X)			
¬ kvadrat(X)			
siv(X) ∨ kvadrat(X)			
bel(X) ∨ kvadrat(X)			
bel(X) ∧ kvadrat(X)			
bel(X) ∨ petkotnik(X)			

9.



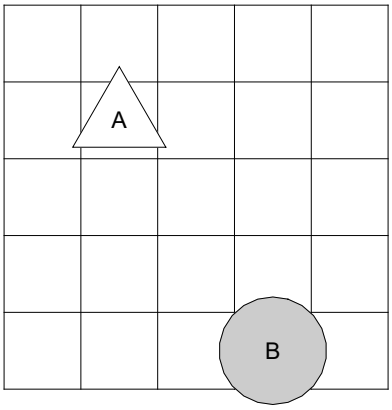
S	P(S)	P(X = A | S)	P(X = B | S)
kvadrat(X)			
bel(X)			
¬ petkotnik(X)			
¬ bel(X)			
siv(X) ∨ kvadrat(X)			
siv(X) ∨ trikotnik(X)			
bel(X) ∧ kvadrat(X)			
siv(X) ∧ kvadrat(X)			

10.



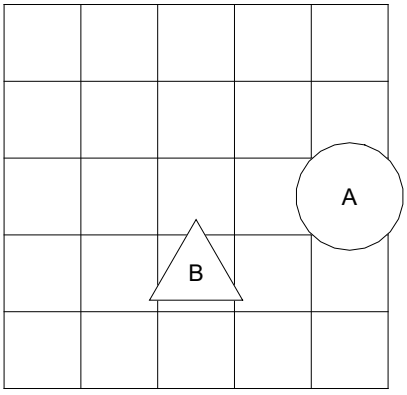
S	P(S)	P(X = A | S)	P(X = B | S)
bel(X)			
kvadrat(X)			
¬ siv(X)			
¬ kvadrat(X)			
siv(X) ∧ petkotnik(X)			
bel(X) ∧ trikotnik(X)			
siv(X) ∨ kvadrat(X)			
bel(X) ∨ petkotnik(X)			

11.



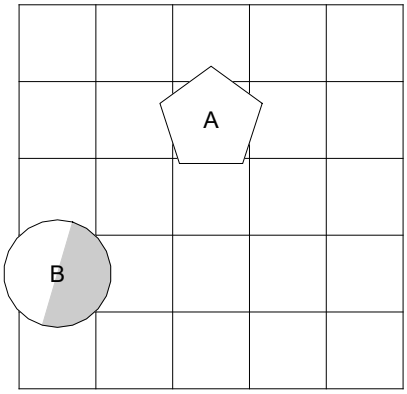
S	P(S)	P(X = A | S)	P(X = B | S)
kvadrat(X)			
petkotnik(X)			
¬ petkotnik(X)			
¬ bel(X)			
siv(X) ∨ petkotnik(X)			
bel(X) ∨ petkotnik(X)			
bel(X) ∨ trikotnik(X)			
siv(X) ∨ kvadrat(X)			

12.



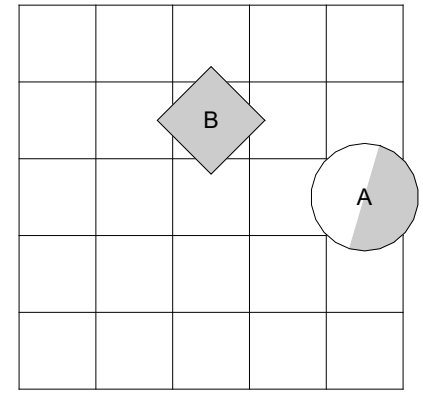
S	P(S)	P(X = A | S)	P(X = B | S)
siv(X)			
bel(X)			
¬ petkotnik(X)			
¬ trikotnik(X)			
bel(X) ∧ petkotnik(X)			
bel(X) ∧ kvadrat(X)			
siv(X) ∧ kvadrat(X)			
siv(X) ∨ trikotnik(X)			

13.



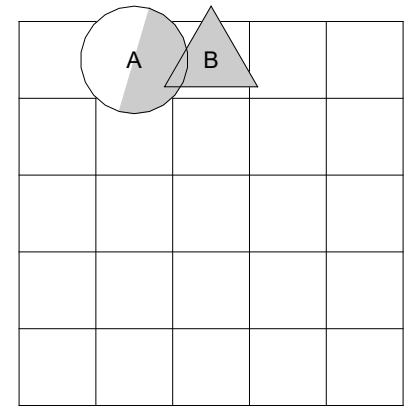
S	P(S)	P(X = A | S)	P(X = B | S)
kvadrat(X)			
bel(X)			
¬ bel(X)			
¬ siv(X)			
siv(X) ∨ petkotnik(X)			
bel(X) ∨ kvadrat(X)			
bel(X) ∨ petkotnik(X)			
bel(X) ∧ kvadrat(X)			

14.



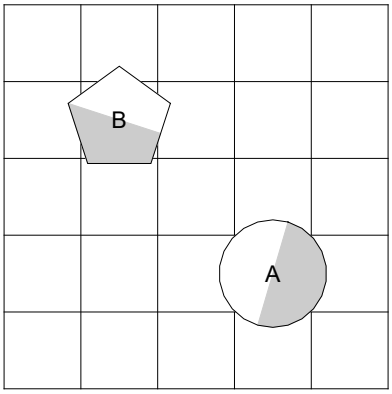
S	P(S)	P(X = A | S)	P(X = B | S)
bel(X)			
siv(X)			
¬ bel(X)			
¬ siv(X)			
bel(X) ∨ kvadrat(X)			
bel(X) ∧ kvadrat(X)			
bel(X) ∨ trikotnik(X)			
bel(X) ∨ petkotnik(X)			

15.



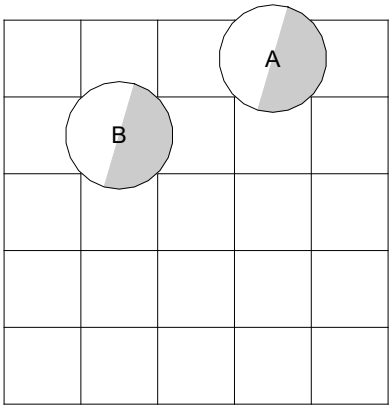
S	P(S)	P(X = A | S)	P(X = B | S)
petkotnik(X)			
siv(X)			
¬ trikotnik(X)			
¬ siv(X)			
siv(X) ∨ petkotnik(X)			
bel(X) ∧ petkotnik(X)			
siv(X) ∨ trikotnik(X)			
siv(X) ∧ petkotnik(X)			

16.



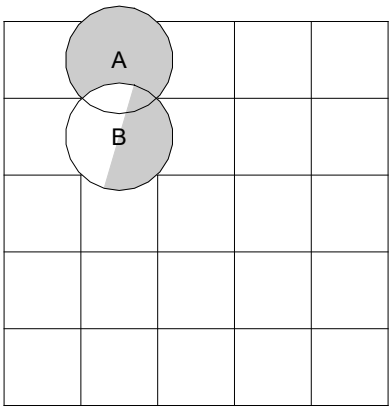
S	P(S)	P(X = A | S)	P(X = B | S)
kvadrat(X)			
bel(X)			
¬ bel(X)			
¬ petkotnik(X)			
bel(X) ∨ petkotnik(X)			
siv(X) ∧ petkotnik(X)			
bel(X) ∨ trikotnik(X)			
siv(X) ∨ kvadrat(X)			

17.



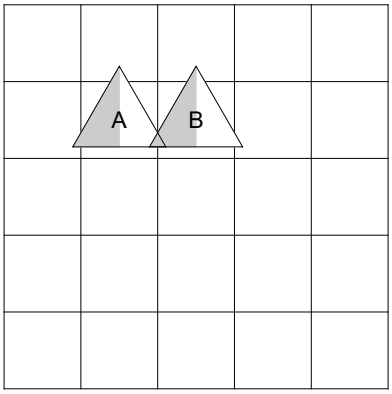
S	P(S)	P(X = A | S)	P(X = B | S)
kvadrat(X)			
siv(X)			
¬ siv(X)			
¬ kvadrat(X)			
siv(X) ∧ kvadrat(X)			
bel(X) ∧ trikotnik(X)			
bel(X) ∧ kvadrat(X)			
bel(X) ∨ trikotnik(X)			

18.



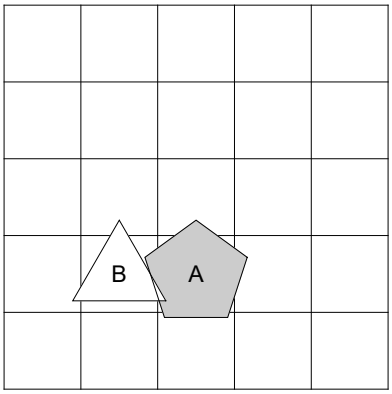
S	P(S)	P(X = A | S)	P(X = B | S)
bel(X)			
petkotnik(X)			
¬ kvadrat(X)			
¬ bel(X)			
siv(X) ∧ kvadrat(X)			
bel(X) ∨ trikotnik(X)			
bel(X) ∧ trikotnik(X)			
bel(X) ∧ kvadrat(X)			

19.



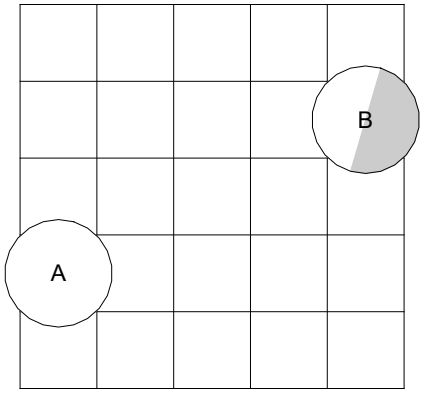
S	P(S)	P(X = A | S)	P(X = B | S)
siv(X)			
bel(X)			
¬ bel(X)			
¬ petkotnik(X)			
bel(X) ∨ petkotnik(X)			
bel(X) ∧ trikotnik(X)			
siv(X) ∧ kvadrat(X)			
bel(X) ∨ trikotnik(X)			

20.



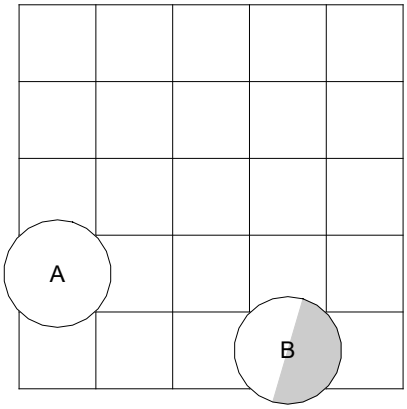
S	P(S)	P(X = A | S)	P(X = B | S)
petkotnik(X)			
kvadrat(X)			
¬ kvadrat(X)			
¬ petkotnik(X)			
bel(X) ∧ petkotnik(X)			
siv(X) ∧ kvadrat(X)			
bel(X) ∨ trikotnik(X)			
siv(X) ∨ trikotnik(X)			

1.



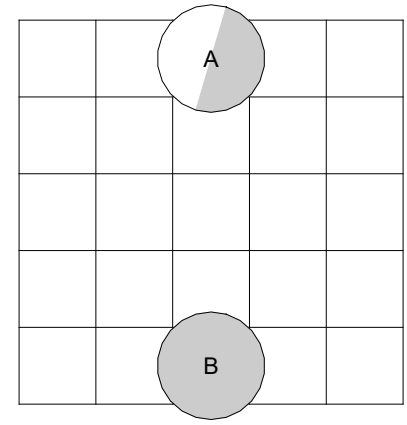
S	P(S)	P(X = A | S)	P(X = B | S)
trikotnik(X)	$\frac{1}{3}$	$\frac{1}{2}$	$\frac{1}{2}$
petkotnik(X)	$\frac{1}{3}$	$\frac{1}{2}$	$\frac{1}{2}$
¬ kvadrat(X)	$\frac{2}{3}$	$\frac{1}{2}$	$\frac{1}{2}$
¬ siv(X)	$\frac{3}{4}$	$\frac{2}{3}$	$\frac{1}{3}$
siv(X) ∨ kvadrat(X)	$\frac{1}{2}$	$\frac{1}{3}$	$\frac{2}{3}$
bel(X) ∨ kvadrat(X)	$\frac{5}{6}$	$\frac{3}{5}$	$\frac{2}{5}$
bel(X) ∨ trikotnik(X)	$\frac{5}{6}$	$\frac{3}{5}$	$\frac{2}{5}$
siv(X) ∧ kvadrat(X)	$\frac{1}{12}$	0	1

2.



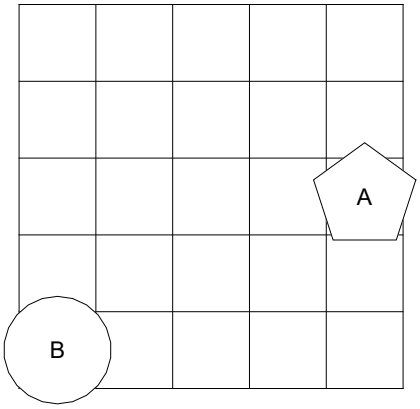
S	P(S)	P(X = A | S)	P(X = B | S)
trikotnik(X)	$\frac{1}{3}$	$\frac{1}{2}$	$\frac{1}{2}$
petkotnik(X)	$\frac{1}{3}$	$\frac{1}{2}$	$\frac{1}{2}$
¬ siv(X)	$\frac{3}{4}$	$\frac{2}{3}$	$\frac{1}{3}$
¬ trikotnik(X)	$\frac{2}{3}$	$\frac{1}{2}$	$\frac{1}{2}$
bel(X) ∨ petkotnik(X)	$\frac{5}{6}$	$\frac{3}{5}$	$\frac{2}{5}$
siv(X) ∧ petkotnik(X)	$\frac{1}{12}$	0	1
bel(X) ∧ petkotnik(X)	$\frac{1}{4}$	$\frac{2}{3}$	$\frac{1}{3}$
siv(X) ∧ kvadrat(X)	$\frac{1}{12}$	0	1

3.



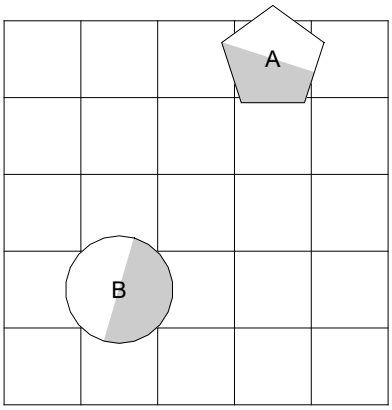
S	P(S)	P(X = A | S)	P(X = B | S)
kvadrat(X)	$\frac{1}{3}$	$\frac{1}{2}$	$\frac{1}{2}$
petkotnik(X)	$\frac{1}{3}$	$\frac{1}{2}$	$\frac{1}{2}$
¬ petkotnik(X)	$\frac{2}{3}$	$\frac{1}{2}$	$\frac{1}{2}$
¬ siv(X)	$\frac{1}{4}$	1	0
siv(X) ∧ petkotnik(X)	$\frac{1}{4}$	$\frac{1}{3}$	$\frac{2}{3}$
bel(X) ∨ petkotnik(X)	$\frac{1}{2}$	$\frac{2}{3}$	$\frac{1}{3}$
bel(X) ∨ kvadrat(X)	$\frac{1}{2}$	$\frac{2}{3}$	$\frac{1}{3}$
siv(X) ∧ kvadrat(X)	$\frac{1}{4}$	$\frac{1}{3}$	$\frac{2}{3}$

4.



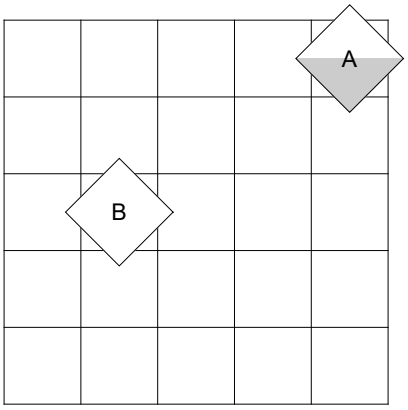
S	P(S)	P(X = A | S)	P(X = B | S)
trikotnik(X)	$\frac{1}{6}$	0	1
siv(X)	0	U	U
¬ siv(X)	1	$\frac{1}{2}$	$\frac{1}{2}$
¬ bel(X)	0	U	U
bel(X) ∨ kvadrat(X)	1	$\frac{1}{2}$	$\frac{1}{2}$
siv(X) ∨ kvadrat(X)	$\frac{1}{6}$	0	1
bel(X) ∧ kvadrat(X)	$\frac{1}{6}$	0	1
siv(X) ∨ petkotnik(X)	$\frac{2}{3}$	$\frac{3}{4}$	$\frac{1}{4}$

5.



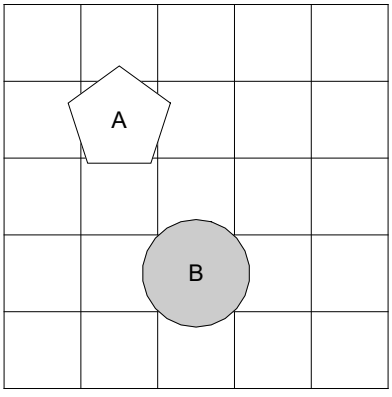
S	P(S)	P(X = A | S)	P(X = B | S)
petkotnik(X)	$\frac{2}{3}$	$\frac{3}{4}$	$\frac{1}{4}$
bel(X)	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
¬ kvadrat(X)	$\frac{5}{6}$	$\frac{3}{5}$	$\frac{2}{5}$
¬ bel(X)	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
bel(X) ∧ petkotnik(X)	$\frac{1}{3}$	$\frac{3}{4}$	$\frac{1}{4}$
siv(X) ∨ trikotnik(X)	$\frac{7}{12}$	$\frac{3}{7}$	$\frac{4}{7}$
siv(X) ∨ petkotnik(X)	$\frac{5}{6}$	$\frac{3}{5}$	$\frac{2}{5}$
siv(X) ∧ kvadrat(X)	$\frac{1}{12}$	0	1

6.



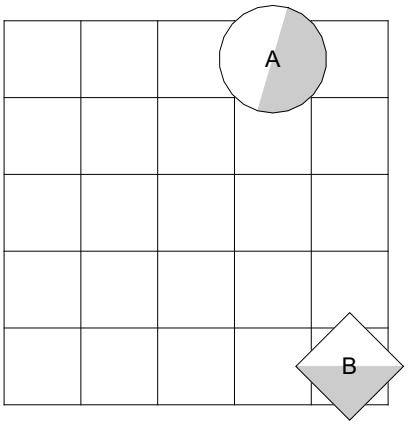
S	P(S)	P(X = A | S)	P(X = B | S)
trikotnik(X)	0	U	U
petkotnik(X)	0	U	U
¬ siv(X)	$\frac{3}{4}$	$\frac{1}{3}$	$\frac{2}{3}$
¬ petkotnik(X)	1	$\frac{1}{2}$	$\frac{1}{2}$
bel(X) ∧ kvadrat(X)	$\frac{3}{4}$	$\frac{1}{3}$	$\frac{2}{3}$
siv(X) ∧ trikotnik(X)	0	U	U
siv(X) ∧ kvadrat(X)	$\frac{1}{4}$	1	0
siv(X) ∨ kvadrat(X)	1	$\frac{1}{2}$	$\frac{1}{2}$

7.



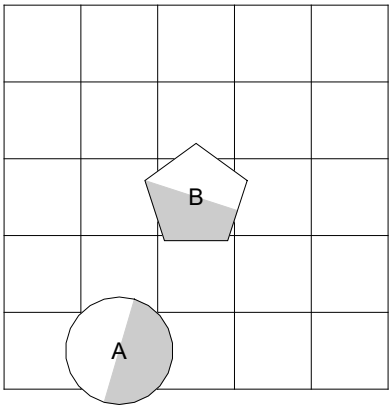
S	P(S)	P(X = A | S)	P(X = B | S)
petkotnik(X)	$\frac{2}{3}$	$\frac{3}{4}$	$\frac{1}{4}$
siv(X)	$\frac{1}{2}$	0	1
¬ siv(X)	$\frac{1}{2}$	1	0
¬ petkotnik(X)	$\frac{1}{3}$	0	1
bel(X) ∨ petkotnik(X)	$\frac{2}{3}$	$\frac{3}{4}$	$\frac{1}{4}$
siv(X) ∨ petkotnik(X)	1	$\frac{1}{2}$	$\frac{1}{2}$
siv(X) ∨ kvadrat(X)	$\frac{1}{2}$	0	1
bel(X) ∧ petkotnik(X)	$\frac{1}{2}$	1	0

8.



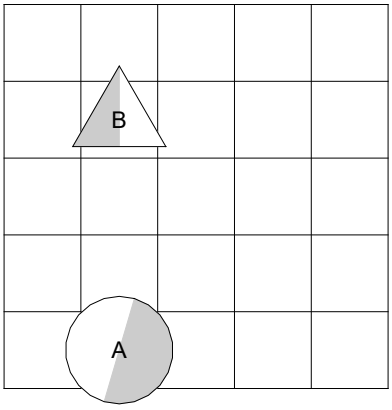
S	P(S)	P(X = A | S)	P(X = B | S)
siv(X)	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
petkotnik(X)	$\frac{1}{6}$	1	0
¬ bel(X)	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
¬ kvadrat(X)	$\frac{1}{3}$	1	0
siv(X) ∨ kvadrat(X)	$\frac{5}{6}$	$\frac{2}{5}$	$\frac{3}{5}$
bel(X) ∨ kvadrat(X)	$\frac{5}{6}$	$\frac{2}{5}$	$\frac{3}{5}$
bel(X) ∧ kvadrat(X)	$\frac{1}{3}$	$\frac{1}{4}$	$\frac{3}{4}$
bel(X) ∨ petkotnik(X)	$\frac{7}{12}$	$\frac{4}{7}$	$\frac{3}{7}$

9.



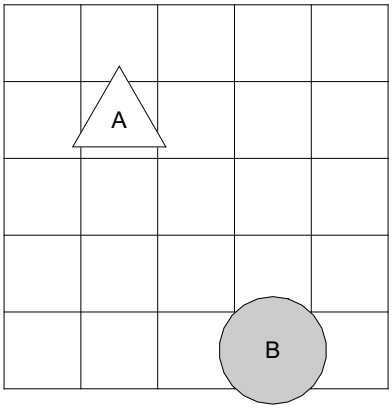
S	P(S)	P(X = A | S)	P(X = B | S)
kvadrat(X)	$\frac{1}{6}$	1	0
bel(X)	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
¬ petkotnik(X)	$\frac{1}{3}$	1	0
¬ bel(X)	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
siv(X) ∨ kvadrat(X)	$\frac{7}{12}$	$\frac{4}{7}$	$\frac{3}{7}$
siv(X) ∨ trikotnik(X)	$\frac{7}{12}$	$\frac{4}{7}$	$\frac{3}{7}$
bel(X) ∧ kvadrat(X)	$\frac{1}{12}$	1	0
siv(X) ∧ kvadrat(X)	$\frac{1}{12}$	1	0

10.



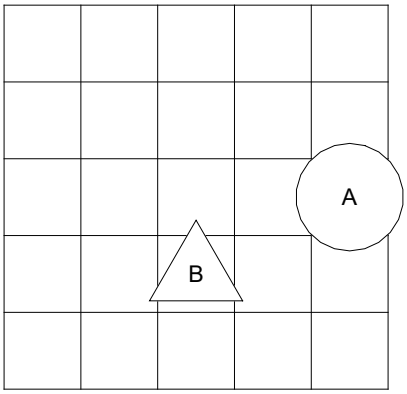
S	P(S)	P(X = A | S)	P(X = B | S)
bel(X)	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
kvadrat(X)	$\frac{1}{6}$	1	0
¬ siv(X)	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
¬ kvadrat(X)	$\frac{5}{6}$	$\frac{2}{5}$	$\frac{3}{5}$
siv(X) ∧ petkotnik(X)	$\frac{1}{12}$	1	0
bel(X) ∧ trikotnik(X)	$\frac{1}{3}$	$\frac{1}{4}$	$\frac{3}{4}$
siv(X) ∨ kvadrat(X)	$\frac{7}{12}$	$\frac{4}{7}$	$\frac{3}{7}$
bel(X) ∨ petkotnik(X)	$\frac{7}{12}$	$\frac{4}{7}$	$\frac{3}{7}$

11.



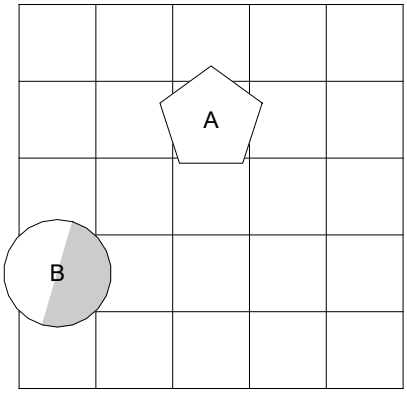
S	P(S)	P(X = A | S)	P(X = B | S)
kvadrat(X)	$\frac{1}{6}$	0	1
petkotnik(X)	$\frac{1}{6}$	0	1
¬ petkotnik(X)	$\frac{5}{6}$	$\frac{3}{5}$	$\frac{2}{5}$
¬ bel(X)	$\frac{1}{2}$	0	1
siv(X) ∨ petkotnik(X)	$\frac{1}{2}$	0	1
bel(X) ∨ petkotnik(X)	$\frac{2}{3}$	$\frac{3}{4}$	$\frac{1}{4}$
bel(X) ∨ trikotnik(X)	$\frac{2}{3}$	$\frac{3}{4}$	$\frac{1}{4}$
siv(X) ∨ kvadrat(X)	$\frac{1}{2}$	0	1

12.



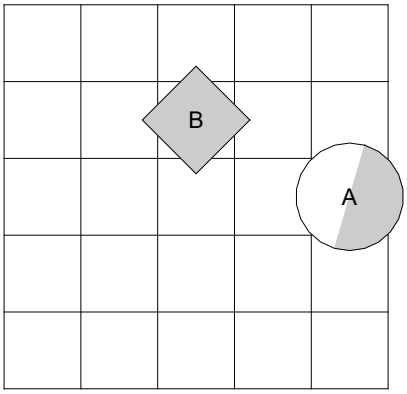
S	P(S)	P(X = A | S)	P(X = B | S)
siv(X)	0	U	U
bel(X)	1	$\frac{1}{2}$	$\frac{1}{2}$
¬ petkotnik(X)	$\frac{5}{6}$	$\frac{2}{5}$	$\frac{3}{5}$
¬ trikotnik(X)	$\frac{1}{3}$	1	0
bel(X) ∧ petkotnik(X)	$\frac{1}{6}$	1	0
bel(X) ∧ kvadrat(X)	$\frac{1}{6}$	1	0
siv(X) ∧ kvadrat(X)	0	U	U
siv(X) ∨ trikotnik(X)	$\frac{2}{3}$	$\frac{1}{4}$	$\frac{3}{4}$

13.



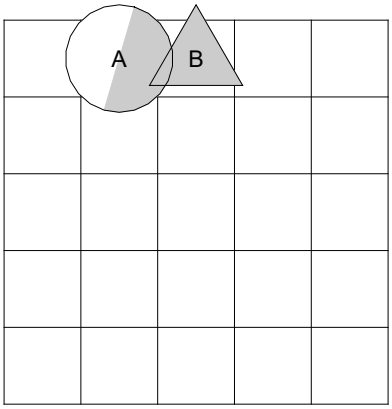
S	P(S)	P(X = A | S)	P(X = B | S)
kvadrat(X)	$\frac{1}{6}$	0	1
bel(X)	$\frac{3}{4}$	$\frac{2}{3}$	$\frac{1}{3}$
¬ bel(X)	$\frac{1}{4}$	0	1
¬ siv(X)	$\frac{3}{4}$	$\frac{2}{3}$	$\frac{1}{3}$
siv(X) ∨ petkotnik(X)	$\frac{5}{6}$	$\frac{3}{5}$	$\frac{2}{5}$
bel(X) ∨ kvadrat(X)	$\frac{5}{6}$	$\frac{3}{5}$	$\frac{2}{5}$
bel(X) ∨ petkotnik(X)	$\frac{5}{6}$	$\frac{3}{5}$	$\frac{2}{5}$
bel(X) ∧ kvadrat(X)	$\frac{1}{12}$	0	1

14.



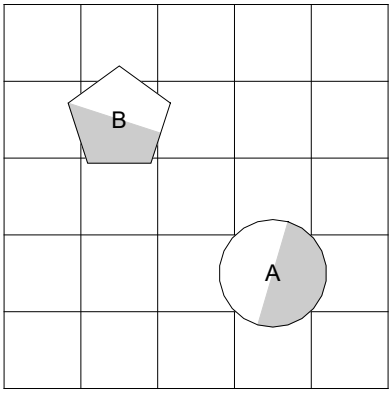
S	P(S)	P(X = A | S)	P(X = B | S)
bel(X)	$\frac{1}{4}$	1	0
siv(X)	$\frac{3}{4}$	$\frac{1}{3}$	$\frac{2}{3}$
¬ bel(X)	$\frac{3}{4}$	$\frac{1}{3}$	$\frac{2}{3}$
¬ siv(X)	$\frac{1}{4}$	1	0
bel(X) ∨ kvadrat(X)	$\frac{5}{6}$	$\frac{2}{5}$	$\frac{3}{5}$
bel(X) ∧ kvadrat(X)	$\frac{1}{12}$	1	0
bel(X) ∨ trikotnik(X)	$\frac{1}{3}$	1	0
bel(X) ∨ petkotnik(X)	$\frac{1}{3}$	1	0

15.



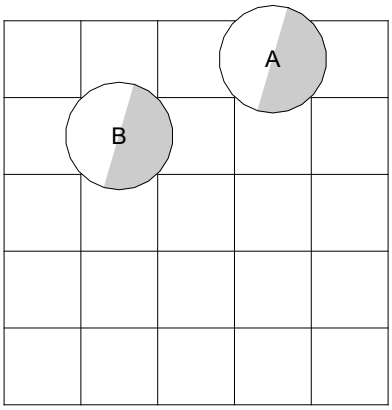
S	P(S)	P(X = A | S)	P(X = B | S)
petkotnik(X)	$\frac{1}{6}$	1	0
siv(X)	$\frac{3}{4}$	$\frac{1}{3}$	$\frac{2}{3}$
¬ trikotnik(X)	$\frac{1}{3}$	1	0
¬ siv(X)	$\frac{1}{4}$	1	0
siv(X) ∨ petkotnik(X)	$\frac{5}{6}$	$\frac{2}{5}$	$\frac{3}{5}$
bel(X) ∧ petkotnik(X)	$\frac{1}{12}$	1	0
siv(X) ∨ trikotnik(X)	$\frac{5}{6}$	$\frac{2}{5}$	$\frac{3}{5}$
siv(X) ∧ petkotnik(X)	$\frac{1}{12}$	1	0

16.



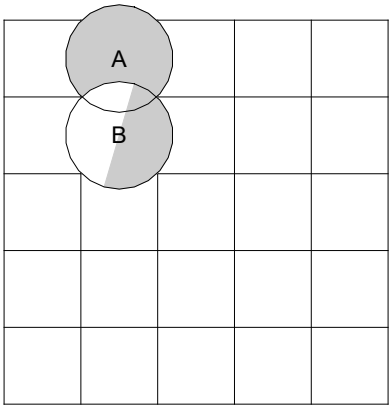
S	P(S)	P(X = A | S)	P(X = B | S)
kvadrat(X)	$\frac{1}{6}$	1	0
bel(X)	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
¬ bel(X)	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
¬ petkotnik(X)	$\frac{1}{3}$	1	0
bel(X) ∨ petkotnik(X)	$\frac{5}{6}$	$\frac{2}{5}$	$\frac{3}{5}$
siv(X) ∧ petkotnik(X)	$\frac{1}{3}$	$\frac{1}{4}$	$\frac{3}{4}$
bel(X) ∨ trikotnik(X)	$\frac{7}{12}$	$\frac{4}{7}$	$\frac{3}{7}$
siv(X) ∨ kvadrat(X)	$\frac{7}{12}$	$\frac{4}{7}$	$\frac{3}{7}$

17.



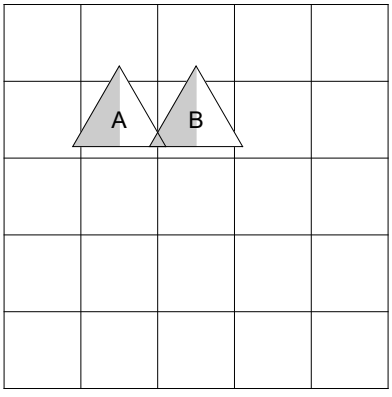
S	P(S)	P(X = A | S)	P(X = B | S)
kvadrat(X)	$\frac{1}{3}$	$\frac{1}{2}$	$\frac{1}{2}$
siv(X)	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
¬ siv(X)	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
¬ kvadrat(X)	$\frac{2}{3}$	$\frac{1}{2}$	$\frac{1}{2}$
siv(X) ∧ kvadrat(X)	$\frac{1}{6}$	$\frac{1}{2}$	$\frac{1}{2}$
bel(X) ∧ trikotnik(X)	$\frac{1}{6}$	$\frac{1}{2}$	$\frac{1}{2}$
bel(X) ∧ kvadrat(X)	$\frac{1}{6}$	$\frac{1}{2}$	$\frac{1}{2}$
bel(X) ∨ trikotnik(X)	$\frac{2}{3}$	$\frac{1}{2}$	$\frac{1}{2}$

18.



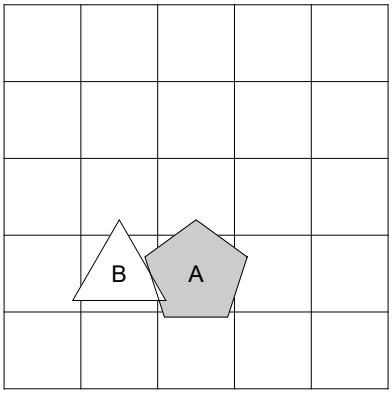
S	P(S)	P(X = A | S)	P(X = B | S)
bel(X)	$\frac{1}{4}$	0	1
petkotnik(X)	$\frac{1}{3}$	$\frac{1}{2}$	$\frac{1}{2}$
¬ kvadrat(X)	$\frac{2}{3}$	$\frac{1}{2}$	$\frac{1}{2}$
¬ bel(X)	$\frac{3}{4}$	$\frac{2}{3}$	$\frac{1}{3}$
siv(X) ∧ kvadrat(X)	$\frac{1}{4}$	$\frac{2}{3}$	$\frac{1}{3}$
bel(X) ∨ trikotnik(X)	$\frac{1}{2}$	$\frac{1}{3}$	$\frac{2}{3}$
bel(X) ∧ trikotnik(X)	$\frac{1}{12}$	0	1
bel(X) ∧ kvadrat(X)	$\frac{1}{12}$	0	1

19.



S	P(S)	P(X = A | S)	P(X = B | S)
siv(X)	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
bel(X)	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
¬ bel(X)	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
¬ petkotnik(X)	1	$\frac{1}{2}$	$\frac{1}{2}$
bel(X) ∨ petkotnik(X)	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
bel(X) ∧ trikotnik(X)	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
siv(X) ∧ kvadrat(X)	0	U	U
bel(X) ∨ trikotnik(X)	1	$\frac{1}{2}$	$\frac{1}{2}$

20.



S	P(S)	P(X = A | S)	P(X = B | S)
petkotnik(X)	$\frac{1}{2}$	1	0
kvadrat(X)	0	U	U
¬ kvadrat(X)	1	$\frac{1}{2}$	$\frac{1}{2}$
¬ petkotnik(X)	$\frac{1}{2}$	0	1
bel(X) ∧ petkotnik(X)	0	U	U
siv(X) ∧ kvadrat(X)	0	U	U
bel(X) ∨ trikotnik(X)	$\frac{1}{2}$	0	1
siv(X) ∨ trikotnik(X)	1	$\frac{1}{2}$	$\frac{1}{2}$

Referenca : Total Probability and Bayes ' s Theorem from the Wolfram Demonstrations Project http : // demonstrations.wolfram.com ╱ TotalProbabilityAndBayessTheorem ╱ Contributed by : Izidor Hafner