```
Niklas Vest - A22
     Expected[av_] := N\left[\frac{\text{Total[av]}}{\text{Length[av]}}\right] (* "Total" Folds list using addition *)
ln[@]:= diePoss = \{1, 2, 3, 4, 5, 6\};
In[*]:= xE = Expected[diePoss]
Out[•]= 3.5
In[*]:= dE = Expected[diePoss x 2]
Out[ ]= 7
In[*]:= qE = Expected[diePoss<sup>2</sup>]
Out[\bullet] = 15.1667
In[*]:= bE = Expected[7 - diePoss]
Out[\circ]= 3.5
In[*]:= Expected2[av_, rel_] := N[Total[av x rel_]]
Total[rel]
ln[a]:= diceSumPoss = {2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12};
     diceSumRel = {1, 2, 3, 4, 5, 6, 5, 4, 3, 2, 1 };
In[*]:= sE = Expected2[diceSumPoss, diceSumRel]
Outfol= 7.
log_{ij} = diceProdPoss = \{1, 2, 3, 4, 5, 6, 8, 9, 10, 12, 15, 16, 18, 20, 24, 25, 30, 36\};
      diceProdRel = {1, 2, 2, 3, 2, 4, 2, 1, 2, 4, 2, 1, 2, 2, 2, 1, 2, 1};
ln[*]:= pE = Expected2[diceProdPoss, diceProdRel]
Out[\circ]= 12.25
     Expected[2 x diePoss] == 2 x Expected[diePoss](* [1] *)
Out[*]= True
     Expected[diePoss<sup>2</sup>] == Expected[diePoss]<sup>2</sup>(* [2] *)
Out[•]= False
In[*]:= Expected[7 - diePoss] == 7 - Expected[diePoss]
Out[*]= True
     E(X_1 + X_2) entspricht [1] und E(X_1 \times X_2) entspricht [2]
```