## Solution

Probability of winning a prize:

$$
\mathrm{p}=\frac{1}{4}=0.25
$$

Probability of not winning a prize:

$$
\mathrm{q}=1-\mathrm{p}=1-\frac{1}{4}=\frac{3}{4}
$$

Let $\mathrm{H}_{1}$ - hypothesis, in which the family did not win any prizes.
Family just ordered three orders of fries, so the probability of not winning the prize after three orders is:

$$
\mathrm{P}\left(\mathrm{H}_{1}\right)=\left(\frac{3}{4}\right)^{3}=\left(\frac{27}{64}\right)=0.42
$$

Hence, the required probability is equal to:

$$
P=1-P\left(H_{1}\right)=1-\frac{27}{64}=\frac{37}{64}=0.58
$$

Answer: probability that someone in your family won a prize today is 0.58 .

