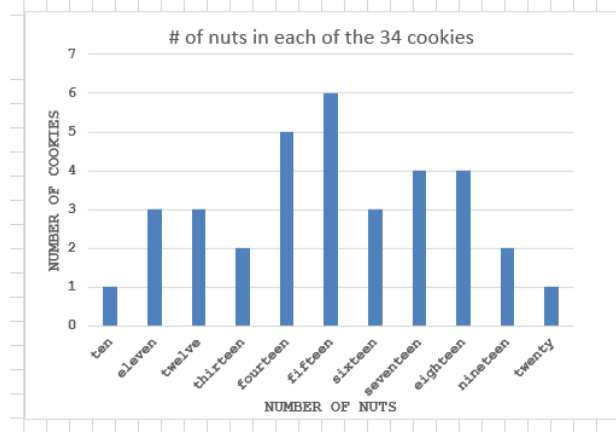


This book has permission to use the "N&K method of COLORS".

12) Question: Based on the graph below, find the approximate average number of "nuts" per cookie?

- A) 13
 - B) 14
 - C) 15
 - D) 16
- nw



For speed, while solving something similar, only THINK the words in blue; WRITE only the words in other COLORS.

- Given: 1) The graph; with x-axis (Number of Nuts) and y-axis (Number of cookies).
 2) The total number of cookies is 34.

Solve: Find the average number of "nuts" per cookie?

Road Map of Solution:

First Step: Find the TOTAL number of Nuts in the cookies.

Second Step: Find the average number of "nuts" per cookie by dividing the TOTAL number of Nuts in the cookies by the Total number of cookies.

First Step: Find the TOTAL number of Nuts in the cookies.

$$\begin{aligned}
 &= \text{varying number of nuts} \text{ times } \text{number of cookies} \\
 &= (10 \times 1) + (11 \times 3) + (12 \times 3) + (13 \times 2) + (14 \times 5) + (15 \times 6) + (16 \times 3) + (17 \times 4) + (18 \times 4) + (19 \times 2) + (20 \times 1) \\
 &= (10) + (33) + (36) + (26) + (70) + (90) + (48) + (68) + (72) + (38) + (20) \\
 &= (10) + (33) + (36) + (26) + (70) + (90) + (48) + (68) + (72) + (38) + (20) \\
 &= 511
 \end{aligned}$$

Second Step: Find the average number of "nuts" per cookie by dividing the TOTAL number of Nuts in the cookies by the Total number of cookies.

$$\begin{aligned}
 &= \frac{\text{TOTAL number of NUTS in the cookies}}{\text{TOTAL number of COOKIES}} \\
 &= \frac{511}{34} \\
 &= 15.029
 \end{aligned}$$

= 15 approximately Answer (C)