Assignment -2 in LATEX

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Question 10.13.1.26: A school has five houses A, B, C, D and E. A class has 23 students, 4 from house A, 8 from house B, 5 from house C, 2 from house D and rest from house E. A single student is selected at random to be the class monitor. The probability that the selected student is not from A, B and C is ? Solution:

Number of students in the class = n(T) (1)

$$= 23$$
 (2)

W=selected student is not from A,B and C. No of students in A,B and C=4+8+5=17

$$n(W)$$
 = Remaining no of students (3)

$$= 23 - 17$$
 (4)

$$=6$$

$$\Pr(W) = \frac{n(W)}{n(T)} \tag{6}$$

$$=\frac{6}{23}\tag{7}$$

Therefore, probability of not selecting a student from A,B and C is,

$$\Pr(W) = \frac{6}{23} \tag{8}$$