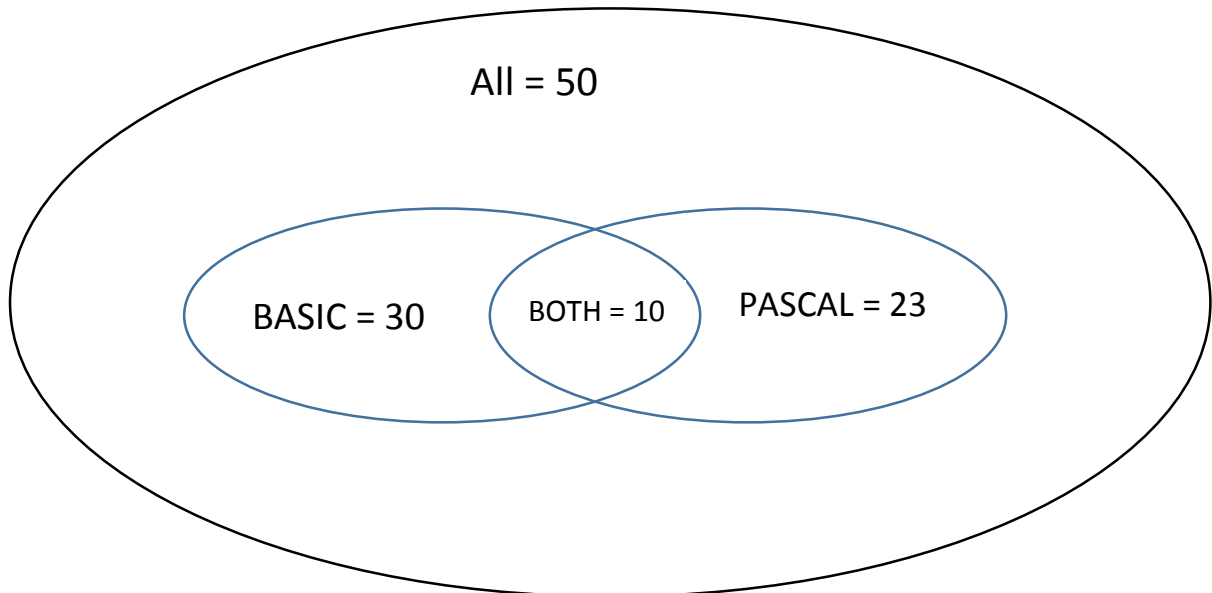


Answer on Question #60953 – Math – Discrete Mathematics

Question

Out of 50 students 30 are studying BASIC, 23 are studying PASCAL and 10 both. How many students study either language?

Solution



One can easily see that adding the number of students, studying BASIC, and students, studying PASCAL, will count the number of students, studying both, twice, so we will have to subtract that number:

$$N_{\text{either}} = N((\text{BASIC}) \text{ or } (\text{PASCAL})) = N_{\text{BASIC}} + N_{\text{PASCAL}} - N_{\text{both}} = 30 + 23 - 10 = 43.$$

Answer: 43 students study either language.