

Answer on Question #47201 – Math – Statistics and Probability

From the set $A = \{3, \sqrt{2}, \sqrt{23}, \sqrt{9}, \sqrt{7}\}$, a number is selected at random. Find the probability that is a rational number.

1/5

2/5

3

4

Solution.

There are 2 rational numbers ($3, \sqrt{9} = 3$) and 3 irrational numbers ($\sqrt{2}, \sqrt{23}, \sqrt{7}$) in the set of 5 numbers.

Thus, the probability that a number is selected at random is a rational number

equals $\frac{2}{5}$.