

**Problems and Answers.**
**Solve the problem #1**

In a survey, 480 statisticians and botanists indicated their major professional activity. The results are summarized in the table. If one of the scientists is selected at random. What is the probability that the selected scientist is a statisticians whose indicated professional activity is teaching?

	Teaching	Research
statisticians	107	121
botanists	101	151

**Solve the problem #2**

In a survey, 252 physicists and engineers indicated their major professional activity. The results are summarized in the table. If one of the scientists is selected at random. What is the probability that the selected scientist is a physicists whose indicated professional activity is research?

	Teaching	Research
physicists	57	63
engineers	44	88

**Solve the problem #3**

In a survey, 312 meteorologists and architects indicated their major professional activity. The results are summarized in the table. If one of the scientists is selected at random. What is the probability that the selected scientist is a architects whose indicated professional activity is teaching?

	Teaching	Research
meteorologists	70	72
architects	67	103

**Solve the problem #4**

In a survey, 408 sociologists and psychologists indicated their major professional activity. The results are summarized in the table. If one of the scientists is selected at random. What is the probability that the selected scientist is a psychologists whose indicated professional activity is research?

	Teaching	Research
sociologists	86	93
psychologists	101	128

**Solve the problem #5**

In a survey, 408 statisticians and zoologists indicated their major professional activity. The results are summarized in the table. If one of the scientists is selected at random. What is the probability that the selected scientist is a statisticians whose indicated professional activity is teaching?

	Teaching	Research
statisticians	98	99
zoologists	95	116

**Solve the problem #6**

In a survey, 684 geologists and anthropologists indicated their major professional activity. The results are summarized in the table. If one of the scientists is selected at random. What is the probability that the selected scientist is a geologists whose indicated professional activity is research?

	Teaching	Research
geologists	146	172
anthropologists	130	236

**Solve the problem #7**

In a survey, 648 linguists and architects indicated their major professional activity. The results are summarized in the table. If one of the scientists is selected at random. What is the probability that the selected scientist is a architects whose indicated professional activity is teaching?

	Teaching	Research
linguists	156	141
architects	138	213

## Answers

### Problems and Answers.

#### Solve the problem #1

In a survey, 480 statisticians and botanists indicated their major professional activity. The results are summarized in the table. If one of the scientists is selected at random. What is the probability that the selected scientist is a statisticians whose indicated professional activity is teaching?

	Teaching	Research
statisticians	107	121
botanists	101	151

107/480

#### Solve the problem #2

In a survey, 252 physicists and engineers indicated their major professional activity. The results are summarized in the table. If one of the scientists is selected at random. What is the probability that the selected scientist is a physicists whose indicated professional activity is research?

	Teaching	Research
physicists	57	63
engineers	44	88

1/4

#### Solve the problem #3

In a survey, 312 meteorologists and architects indicated their major professional activity. The results are summarized in the table. If one of the scientists is selected at random. What is the probability that the selected scientist is a architects whose indicated professional activity is teaching?

	Teaching	Research
meteorologists	70	72
architects	67	103

67/312

#### Solve the problem #4

In a survey, 408 sociologists and psychologists indicated their major professional activity. The results are summarized in the table. If one of the scientists is selected at random. What is the probability that the selected scientist is a psychologists whose indicated professional activity is research?

	Teaching	Research
sociologists	86	93
psychologists	101	128

16/51

#### Solve the problem #5

In a survey, 408 statisticians and zoologists indicated their major professional activity. The results are summarized in the table. If one of the scientists is selected at random. What is the probability that the selected scientist is a statisticians whose indicated professional activity is teaching?

	Teaching	Research
statisticians	98	99
zoologists	95	116

49/204

#### Solve the problem #6

In a survey, 684 geologists and anthropologists indicated their major professional activity. The results are summarized in the table. If one of the scientists is selected at random. What is the probability that the selected scientist is a geologists whose indicated professional activity is research?

	Teaching	Research
geologists	146	172
anthropologists	130	236

43/171

#### Solve the problem #7

In a survey, 648 linguists and architects indicated their major professional activity. The results are summarized in the table. If one of the scientists is selected at random. What is the probability that the selected scientist is a architects whose indicated professional activity is teaching?

	Teaching	Research
linguists	156	141
architects	138	213

23/108