Name_____ Date_____

Solve the problem #1

In a survey, 264 veterinarians and physicists 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 veterinarians whose indicated professional activity is teaching?

	Teaching	Research
veterinarians	56	52
physicists	52	104

Solve the problem #2

In a survey, 216 geographers 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 geographers whose indicated professional activity is research?

	Teaching	Research
geographers	43	56
engineers	51	66

Solve the problem #3

In a survey, 396 chemists 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 engineers whose indicated professional activity is teaching?

	Teaching	Research
chemists	91	94
engineers	90	121

Solve the problem #4

In a survey, 684 mathematicians and oceanologists 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 oceanologists whose indicated professional activity is research?

	Teaching	Research
mathematicians	158	171
oceanologists	134	221

Solve the problem #5

In a survey, 612 psychologists 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 psychologists whose indicated professional activity is teaching?

	Teaching	Research
psychologists	138	133
architects	141	200

Solve the problem #6

In a survey, 264 philologists and veterinarians 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 philologists whose indicated professional activity is research?

	Teaching	Research
philologists	57	52
veterinarians	75	80

Solve the problem #7

In a survey, 216 linguists 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 teaching?

	Teaching	Research
linguists	50	46
psychologists	40	80

Problems and Answers.

Solve the problem #1

In a survey, 264 veterinarians and physicists 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 veterinarians whose indicated professional activity is teaching?

	Teaching	Research
veterinarians	56	52
physicists	52	104

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Solve the problem #2

In a survey, 216 geographers 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 geographers whose indicated professional activity is research?

	Teaching	Research
geographers	43	56
engineers	51	66

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Solve the problem #3

In a survey, 396 chemists 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 engineers whose indicated professional activity is teaching?

	Teaching	Research
chemists	91	94
engineers	90	121

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Solve the problem #4

In a survey, 684 mathematicians and oceanologists 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 oceanologists whose indicated professional activity is research?

	Teaching	Research
mathematicians	158	171
oceanologists	134	221

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Solve the problem #5

In a survey, 612 psychologists 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 psychologists whose indicated professional activity is teaching?

	Teaching	Research
psychologists	138	133
architects	141	200

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Solve the problem #6

In a survey, 264 philologists and veterinarians 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 philologists whose indicated professional activity is research?

	Teaching	Research
philologists	57	52
veterinarians	75	80

13/66

Solve the problem #7

In a survey, 216 linguists 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 teaching?

	Teaching	Research
linguists	50	46
psychologists	40	80

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