

Psy 3403 Final Exam: Below presents an experiment with accompanying data.
Answers steps 1 to 9. (100 pts)

In the principle of operant conditioning, a behavior followed by a reward is more likely to be reinforced and repeated. A researcher theorized that this would be the case if the reward was valued by that individual. He had to find out first if there were different reinforcement values assigned to rewards. So, he conducted an experiment to examine if there are differences in reinforcement value for different rewards.

In this study, he had participants perform a task to sort the nails from the screws that were in a big box. After doing the task, they were given a reward. There were 10 subjects in each condition. In the first condition, participants were given verbal praise by the experimenter. In the second condition, participants received a box of chocolate bars. In the third condition, subjects received \$2.00. In the fourth condition, participants were given a \$5.00 coupon to McDonald's. The participants then filled out a series of questionnaires. The questionnaire contained several items. However, there were specifically two items inquiring how valuable the reward was for the subject. The 2 items in the questionnaire was responded to on a Likert scale of 1 (not at all valuable) to 5 (very valuable). Below is the data matrix. Analyze and report the results at alpha level .01.

Condition 1: Verbal praise $X_1 \quad (X^2)$	Condition 2: box of chocolate bars $X_2 \quad (X^2)$	Condition 3: \$2.00 $X_3 \quad (X^2)$	Condition 4: \$5.00 coupon to McDonald's $X_4 \quad (X^2)$
Subject 1: 1	Subject 11: 3	Subject 21: 3	Subject 31: 8
Subject 2: 3	Subject 12: 1	Subject 22: 4	Subject 32: 5
Subject 3: 4	Subject 13: 2	Subject 23: 2	Subject 33: 6
Subject 4: 1	Subject 14: 2	Subject 24: 2	Subject 34: 3
Subject 5: 5	Subject 15: 6	Subject 25: 3	Subject 35: 8
Subject 6: 3	Subject 16: 5	Subject 26: 3	Subject 36: 6
Subject 7: 2	Subject 17: 4	Subject 27: 6	Subject 37: 7
Subject 8: 4	Subject 18: 2	Subject 28: 5	Subject 38: 10
Subject 9: 2	Subject 19: 6	Subject 29: 3	Subject 39: 9
Subject 10: 5	Subject 20: 3	Subject 30: 4	Subject 40: 9