

ME 274 Fundamentals Exam Summary Report: Spring 2018*

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Overall Performance

Table 1 lists the descriptive statistics for your students' total scores (the total number of questions correct).

Table 1: Summary Statistics for Overall Number of Questions Correct

	Mean	Median	Minimum	Maximum	1st Quartile	3rd Quartile
All Sections	8.36	8.00	6.00	11.00	7.00	9.50
Section 1	8.00	8.00	7.00	9.00	7.50	8.50
Section 2	8.00	8.00	6.00	10.00	7.00	9.00
Section 3	8.33	8.00	7.00	10.00	7.50	9.00
Section 4	9.00	9.00	7.00	11.00	8.00	10.00

Performance By Question

Table 2 details the proportion of correct responses for each question on the assessment.

Table 2: Proportion of Students That Answered Question Correctly

	Section				
	All	1	2	3	4
Q3. Cross Product: Conceptual	0.91	1.00	0.67	1.00	1.00
Q10. Vector Projection: Coord. System	0.91	1.00	0.67	1.00	1.00
Q1. Speed Time History	0.82	0.50	1.00	1.00	0.67
Q4. Free Body Diagrams	0.82	0.50	0.67	1.00	1.00
Q7. Cross Product: Calculation	0.82	1.00	0.67	0.67	1.00
Q11. Vector Projection: Rotated Coord. System	0.82	1.00	0.67	0.67	1.00
Q8. Friction	0.73	0.50	0.67	1.00	0.67
Q6. Vector Projection: Unit Vector	0.64	1.00	0.67	0.33	0.67
Q12. Moments	0.64	1.00	0.67	0.33	0.67
Q2. Kinetic Energy Time History	0.55	0.00	1.00	0.67	0.33
Q9. FBD and Multibody Systems	0.55	0.00	0.67	0.67	0.67
Q5. Chain Rule	0.18	0.50	0.00	0.00	0.33

*The source code that produced this report accompanied a journal manuscript that is in review. For more details on how to prepare and interpret the results in this report, please watch for the journal article to be published.