

Mathematics 30-2: Unit 2 Review

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| **Review the outcomes assessed on this quiz.** **I can...** | **Circle the questions you got correct on this Quiz.** | **Check the rating you think reflects your understanding of each outcome.** |
| **Unit 2 Outcomes** | represent and solve counting problems, using a graphic organizer | 1 |  |  |
| solve a counting problem, using the fundamental counting principle, and explain your reasoning | 2, 9 |  |  |
| determine, with or without technology, the value of a factorial | 3, 11 |  |  |
| simplify a numeric or an algebraic fraction that contains factorials in both the numerator and denominator | 4 |  |  |
| solve an equation that involves factorials | 5 |  |  |
| determine the number of permutations of *n* element taken *r* at a time | 6 |  |  |
| represent the number of arrangements of *n* elements taken *r* at a time, using factorial notation | 7 |  |  |
| determine the number of permutations of *n* elements taken *n* at a time where some elements are not distinct | 8 |  |  |
| determine the number of combinations of *n* elements taken *r* at a time | 10 |  |  |
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| **Review Outcomes** | organize and interpret information using graphic organizers such as Venn diagrams (Lesson 1A) | 12 |  |  |
| determine the elements in the intersection or the union of two sets (Lesson 1B) | 13 |  |  |
| solve a problem that involves sets, and record the solution, using set notation (Lesson 1C) | 14 |  |  |
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| **Record any questions you have about Unit 2. Then, contact your teacher.** |