PEARSON

## ADP Algebra II End-of-Course Exam Operational Blueprint

| Content Standards | Emphasis | Number of Multiple Choice Items | Number of Short Answer Items | Number of Extended Response Items |
| :---: | :---: | :---: | :---: | :---: |
|  |  | 1 point each | 2 points each | 4 points each |
| Operations and Expressions | 15\% of Exam | 2-12 | 0-3 | 0-2 |
| O1. Real numbers |  |  |  |  |
| O2. Complex numbers |  |  |  |  |
| O3. Algebraic expressions |  |  |  |  |
| Equations and Inequalities | 20\% of Exam | 4-16 | 0-4 | 0-2 |
| E1. Linear equations and inequalities |  |  |  |  |
| E2. Nonlinear equations and inequalities |  |  |  |  |
| Polynomial and Rational Functions | 30\% of Exam | 13-21 | 1-3 | 0-2 |
| P1. Quadratic functions |  |  |  |  |
| P2. Higher-order polynomial and rational functions |  |  |  |  |
| Exponential functions | 20\% of Exam | 4-16 | 0-4 | 0-2 |
| X1. Exponential functions |  |  |  |  |
| Functional Operations and Inverses | 15\% of Exam | 3-13 | 0-4 | 0-2 |
| F1. Functional operations and composition |  |  |  |  |
| F2. Inverse functions |  |  |  |  |
| F3. Piecewise functions |  |  |  |  |
| Totals per Exam* | 70 points | 46 Multiple Choice Items | 6 Short Answer Items | 3 Extended Response Items |
| Additional Notes Regarding the Test: |  |  |  |  |
| As described by Webb's Taxonomy: |  |  |  |  |
| Cognitive Level 1 items include the recall of information such as a fact, definition, term, or a simple procedure, as well as performing a simple algorithm or applying a formula and will make up 20-30\% of points on the exam. |  |  |  |  |
| Cognitive Level 2 items require students to make some decisions as to how to approach the problem or activity and will make up 40 $60 \%$ of points on the exam. |  |  |  |  |
| Cognitive Level 3 items require reasoning, planning, using evidence, and a higher level of thinking (e.g. justifying or analyzing) and will make up 20-30\% of points on the exam. |  |  |  |  |
| Short Answer (2 point) items will make up 12 points on every operational form. |  |  |  |  |
| Extended Response (4 point) items will make up 12 points on every operational form. |  |  |  |  |
| *Total per exam item counts above do not include embedded field test items that will consist of 6 multiple choice items and 1 or 2 constructed-response items. These items will not count towards a student's score. |  |  |  |  |
| Half of the items will appear in the session where a calculator is permitted and half will appear in the session where a calculator is not permitted. |  |  |  |  |

