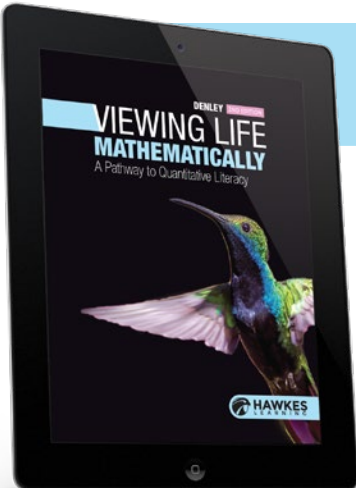
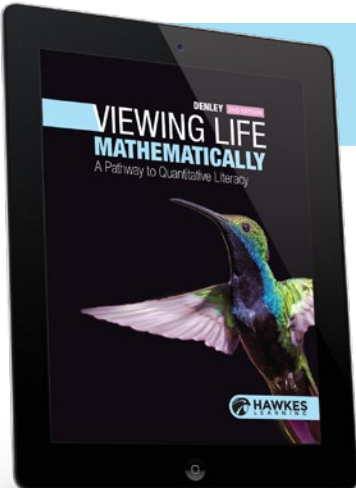




Viewing Life Mathematically

Question Bank Enhancements

<i>Lesson</i>	<i>New Serial Numbers</i>	<i>What Changed</i>
1.1	15–18	4 new questions on arithmetic and geometric sequences, patterns, and mathematical reasoning.
1.2	11–13	3 new questions on solving applications using estimating techniques.
1.3	15–19	5 new questions on patterns, geometric summation figures, and quantity applications.
2.3	20, 21	Added 2 new questions on verifying De Morgan's laws.
2.4	13–18	6 new questions on creating and using Venn Diagrams.
3.1	15–17	3 new questions on logic statements and their negations.
3.2	9–15	Added 3 new multiple-choice questions on selecting the correct truth table given a compound statement. Added 4 new free response questions on completing (filling-in) a given truth table.
3.3	17–22	6 new questions on tautologies, De Morgan's Laws, and negating conditional statements.
3.4	15–18	Added 1 new question on identifying fallacies. Added 1 new question on determining whether an argument is valid and explaining why. Added 2 new questions on determining whether an argument is valid using a truth table.
4.1	39, 40	2 new application questions on using equivalent ratios to find missing values.
4.2	32–37	Added 6 new application questions on using percentages to solve word problems.
4.3	17, 18	2 new application questions on calculating and using unit rates.
4.4	6–10	Added 5 new application questions on using rates for dimensional analysis.
4.5	11–14	Added 4 new application questions on solving word problems using the constant of proportionality.
5.1	20–25	6 new application questions on modeling with linear functions.
5.3	13	1 new application question on modeling with linear equations (cost and revenue functions).
5.4	8–10	Added 3 new multiple-choice questions on graphing systems of linear inequalities.
5.6	23–27	5 new questions on applications involving quadratic functions.
5.7	25–34	10 new questions to address instructor requests for more questions comparing exponential and linear growth and questions that match textbook exercises.
6.2	14–25	Added 6 new application questions on annuities. Added 6 new application questions on reading a stock market chart.
6.3	22–24	3 new questions on calculating monthly payments.
6.4	6–10	Added 5 new application questions on determining gross, adjusted gross, and taxable income.
6.5	10	Added 1 new multiple-choice conceptual question.
9.1	15–23	9 new questions on area and perimeter applications.
9.2	19–29	11 new questions on volume and surface area applications.
9.3	17–23	12 new questions on angles, trigonometric ratios, and solving for unknowns in a right triangle.
10.1	20	1 new question to address an instructor request for a conceptual case to match textbook exercises.



Viewing Life Mathematically

Question Bank Enhancements

<i>Lesson</i>	<i>New Serial Numbers</i>	<i>What Changed</i>
10.2	22–24	3 new questions, 1 to address an instructor request for a conceptual case to match textbook exercises.
10.3	21	1 new question to address an instructor request for a conceptual case to match textbook exercises.
10.4	19	1 new question to address an instructor request for a conceptual case to match textbook exercises.
10.5	22	1 new question to address an instructor request for a conceptual case to match textbook exercises.
11.3	23	1 new question that shows how to find the standard deviation using a calculator.
11.4	26–33	Added 3 new questions on interpreting and calculating z-scores, including 2 new application questions. Added 5 new questions on using the standard normal distribution tables to determine probabilities using z-scores, including 1 new application question.
12.3	14–17	Added 4 new questions on identifying statistical significance.
13.1	17–19	3 new questions on plurality and pairwise method of comparison voting methods.
13.3	10	Added 1 new application question on identifying weaknesses (paradoxes) related to apportionment.
13.4	14	1 new question on identifying dictators and dummy players in voting systems.
14.1	11	Added 1 new question on determining the chromatic number of graphs.