At the end of **Chapter 2**, you can expect to be tested on your ability to:

- Identify angle relationships, including Triangle Angle Sum Theorem, and solve problems using those relationships as in problems 2-34, 2-55, 2-56, 2-66, 2-67, 2-76, 2-107, 2-116, and CL 2-122. In many of these problems there will be more than one correct way to find missing angles and arrive at a solution, thus your ability to justify the steps you take is critical.
- Find the area of a triangle as in problems 2-75, 2-86, 2-94 (b), and CL 2-119 (b), and a parallelogram or trapezoid as in problems 2-94 (c), 2-115, and CL 2-119 (c) and (d). Find the area of these shapes on a grid as in problems 2-97, 2-106, and 2-108 (d). You have worked with multiple strategies for finding area, including using algorithms, dissecting shapes into simpler shapes and adding together the areas, finding the area of a larger shape and subtracting out unneeded areas, and rearranging the parts of a shape to more easily find area. Because you have used multiple strategies for finding area, an assessment might include a question asking you to find area of a shape in at least two different ways.

**More than half** of each test in this course is made up of material from previous chapters. Your test may also include these concepts from the previous chapter:

- Identify shapes in the Shapes Toolkit as in problems CL 1-132 and 2-65, and on a grid, as in problems 2-21 (a), 2-36, 2-97 (a), 2-106 (a), 2-108 (a), and CL 2-120. You will be allowed to to use your Shapes Toolkit.
- Find the slope and equation of a perpendicular line, as in problems 2-42, 2-58, 2-69, 2-105, and CL 2-121 (d).

You may also be tested on these concepts from a previous algebra course:

- Graph two points on a grid and find the slope between them using a slope triangle as in problems 2-22, 2-58 (a), 2-69(a) and (c), 2-105 (b), and CL 2-121 (a).
- Find a probability by counting the number of desired outcomes (successes), and dividing by the number of possible outcomes, as in problems 2-9, 2-35, 2-59, 2-78, 2-98, 2-114, and CL 2-118.
- Master Checkpoint 2: Solving Linear Systems of Equations as in problems 2-31, 2-45, 2-57, 2-85, 2-105, and CL 2-123.

The following new concepts were studied, but will be assessed on a future chapter assessment. Students, like yourself, may need more time to practice these new topics.

- Using the Triangle Inequality to determine if three given side lengths could form a triangle, or to find the possible range of lengths of a third side given the lengths of the two other sides as in problem 2-117.
- Solving contextual problems were the angle of incidence equals the angle of reflection as in problems 2-28, 2-29, and 2-50.
- Apply the Pythagorean Theorem to find missing lengths in a diagram or contextual situation as in problem 2-111.
- Multiply binomials as in problems 2-74, 2-89 (c), and 2-95.