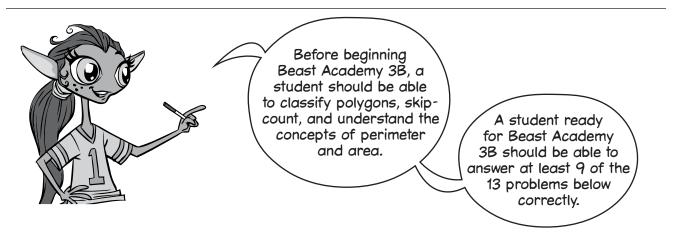


Are you ready for Beast Academy 3B?

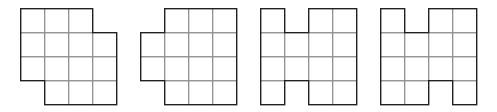


Step 1. The student should try to answer every question without a calculator and without help.

Step 2. Check the student's answers using the solutions at the end of this document.

Step 3. The student should be given a second chance on problems that he or she answered incorrectly.

- 1. Connect 3 of the points below to make an obtuse triangle.
- 2. Connect 4 of the points below to make a square.
 - •
 - .
 - - •
- **3.** Circle the shape or shapes below that *cannot* be made with seven dominoes (



Fill in the blanks to complete each skip-counting pattern below:

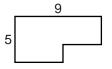
- **4.** 5, 10, 15, ____, 25, ____, 40, ...
- **5.** 13, 19, ____, ___, 43, 49, ____, 61, ...
- **6.** _____, ____, 23, _____, 31, _____, 43, ...



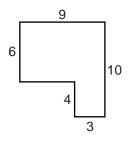
Answer each:

7.	Ella begins at 9 and skip-counts by 7's. Jack begins at 9 and skip-	7
	counts by 8's. What is the next number that both Ella and Jack will	
	say?	

- 8. What is the perimeter of a regular pentagon with sides of length 7?
- **9.** The height of a rectangle is increased by 3 inches. The new rectangle has a perimeter of 30 inches. What was the perimeter of the original rectangle?
- **10.** What is the perimeter of the rectilinear shape below?



11. What is the area of the rectilinear shape below?



12. Six squares are arranged as shown. The perimeter of each square is 5. What is the perimeter of the shape they make?



13. One side of a triangle is 3 inches long. Another side of the same triangle is 6 inches long. Circle every value below that *could* be the length of the triangle's third side.

2 inches 5 inches 8 inches 11 inches 14 inches

12. _____

8._____

9. ____

10.

11.____