

Are you ready for Beast Academy 4B?



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. Label point S on the dot grid below so that quadrilateral BEST is a parallelogram.
- 2. Label point R on the dot grid below so that quadrilateral GRID is a kite.

- **3.** The measure of angle AXB is twice the measure of angle BXC. Without using a protractor, find the measure of angle BXC.
- 4. Shade the square that could be removed from the shape below to leave a shape with at least one *line* of symmetry.





5. Draw a cut line along the grid to split the shape into two pieces so that both pieces have *rotational* symmetry.





	Compute each product.		
6.	9×327 =	7.	27×64=
8.	17×2,003 =	9.	2,020×701 =
	Rewrite each multiplication expression as a power.		
10.	2×2×2×2=	11.	13×13×13×13×13 =
	Compute the value of each power.		
12.	8 ² =	13.	5 ⁴ =
	Fill in the missing exponent in each equation.		
14.	$2^3 \times 2^7 = 2^{\Box}$	15.	$7 \times 7^{\square} = 7^5$
	Answer each question below.		
16.	How can the number 80 be written as the sum powers of 2?	of two	16. 80 =+
17.	The product $147 \times 594 \times 912$ ends with the digit	1	
18.	Write 49^3 as a power of 7.		18