



Are you ready for Beast Academy 3C?



Before beginning Beast Academy 3C, a student should have a strong foundation in basic multiplication, perfect squares, and the distributive property.

A student ready for Beast Academy 3C should be able to answer at least 10 of the 14 problems below correctly.

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.

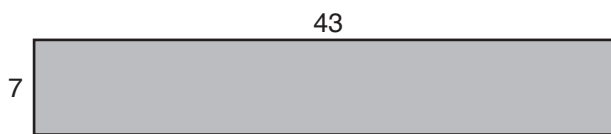
1. Complete the missing entries in the times table below:

\times	8	4		3
			49	
	72			
		8		
6			42	

2. Complete the missing entries in the times table below:

\times		5		8
70				
3	18		60	
				48
		200		

3. Find the area of the rectangle below, in square units.



3. _____

4. What is the greatest possible area of a rectangle that has the same perimeter as the rectangle above (in square units)?

4. _____



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Compute:

5. 42×5 5. _____
6. 8×251 6. _____
7. $17 \times 7 + 23 \times 7$ 7. _____
8. $5 \times 9 \times 2 \times 2 \times 4 \times 5 \times 5 \times 3$ 8. _____
9. $(115 \times 115) - (114 \times 114)$ 9. _____
10. $9 \times 79 \times 9$ 10. _____
11. What is the sum of the first thirty odd numbers:
 $1 + 3 + 5 + 7 + \cdots + 55 + 57 + 59$? 11. _____

Answer each:

12. Rae, Sara, and Taj each have a perfect square number of books. All together, they have 93 books. Taj has the most books. How many books does Taj have? 12. _____
13. Gumballs cost 6 cents each. Chocolates cost 11 cents each. What is the cost in cents of 19 gumballs and 6 chocolates? 13. _____
14. Captain Kraken has 7 treasure chests. Each chest holds 95 rubies. He gives 45 rubies to **each** of his 7 crew members. How many rubies does Captain Kraken have left? 14. _____