



Are you ready for Beast Academy 2D?



Before beginning Beast Academy 2D, students should know how to measure and compute with common units of length.

Students should understand place value and be able to use a variety of addition and subtraction strategies for mental computation.

A student ready for Beast Academy 2D should be able to answer at least 10 of the 13 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 answered incorrectly.

Solve each problem below using a ruler.

1. Draw **two** dots on the line below that are each 4 centimeters from dot D.

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D

2. Draw a line below that is 4 inches long. Then, find the length of the line you drew to the **nearest centimeter**.

2. _____ cm

Solve each problem below.

3. Write 273 centimeters in meters and centimeters.

3. _____ m _____ cm

4. Snorff is 7 ft 3 in tall. Glorff is 3 ft 7 in tall. How much taller is Snorff than Glorff?

4. _____ ft _____ in



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Fill the boxes to make each equation true.

5. $554 - 86 + \boxed{} = 555$

6. $221 + \boxed{} - 220 = 444$

Fill the blanks in the skip-counting patterns below.

7. $\underline{\hspace{1cm}}, \underline{\hspace{1cm}}, \underline{\hspace{1cm}} 33, \underline{\hspace{1cm}} 44, \underline{\hspace{1cm}} 55, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}.$

8. $\underline{\hspace{1cm}}, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}, \underline{\hspace{1cm}} 180, \underline{\hspace{1cm}} 210, \underline{\hspace{1cm}} 240, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}.$

Solve each problem below.

9. Compute $41 + 44 - 14 + 41 - 44 + 41 + 14$. 9. $\underline{\hspace{2cm}}$

10. Compute $(71 + 73 + 75 + 77) - (61 + 63 + 65 + 67)$. 10. $\underline{\hspace{2cm}}$

11. Winnie's number is half of 220. What is half of Winnie's number? 11. $\underline{\hspace{2cm}}$

Fill every empty hexagon with an 8 or a 9 so the sum of the numbers in every horizontal ($\leftrightarrow$) and diagonal ($\nearrow$ or $\searrow$) row of hexagons is odd.

