



Are you ready for Beast Academy 2C?



Before beginning Beast Academy 2C, students should understand the basics of addition and subtraction, parentheses, symbols that stand for numbers, and simple equations.

Students should also know how to guess-and-check, work backwards, and draw pictures to solve challenging problems.

A student ready for Beast Academy 2C should be able to answer at least 12 of the 16 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.

Evaluate each expression below.

1. $87 - 35 = \underline{\hspace{2cm}}$ 2. $975 - 444 = \underline{\hspace{2cm}}$ 3. $555 - 99 = \underline{\hspace{2cm}}$

4. $431 - 350 = \underline{\hspace{2cm}}$ 5. $131 - 84 - 16 = \underline{\hspace{2cm}}$ 6. $232 - 75 - 32 = \underline{\hspace{2cm}}$

Solve each problem below.

7. What is $45 - (12 + 3)$? 7. $\underline{\hspace{2cm}}$

8. Place one pair of parentheses in the equation below to make it true.

$$16 - 8 - 4 - 2 = 14$$

9. Fill each blank below with + or - to make the equation true.

$$45 \square 7 \square 2 \square 8 = 44$$



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Solve each problem below.

10. Evaluate the expression below when $\text{☾} = 9$ and $\text{◯} = 13$.

$$\text{◯} + \text{◯} - 5 - \text{☾} = \underline{\hspace{2cm}}$$

11. Pip makes $\star$ cookies. Burt makes twice as many cookies as Pip. Circle the expression below that gives the **total** number of cookies Pip and Burt make.

$\star + 2$

$\star + 3$

$\star + \star$

$\star + \star + 2$

$\star + \star + \star$

Find the value of the symbol in each equation below.

12. $\text{♣} + 12 = 35$

13. $\text{✱} + \text{✱} - 1 = 15$

$\text{♣} = \underline{\hspace{2cm}}$

$\text{✱} = \underline{\hspace{2cm}}$

Solve each problem below.

14. One hundred monsters stand in a line. Arg is 15th in line. Burg is 25th in line. How many monsters are between Arg and Burg? 14.
15. Each day, the number of leaves on a Magic Bush doubles. On Friday, a Magic Bush had 96 leaves. How many leaves did the Magic Bush have on Monday, earlier that week? 15.
16. Matt has 3 more pennies than Kim. Together, they have 29 pennies. How many pennies does Kim have? 16.