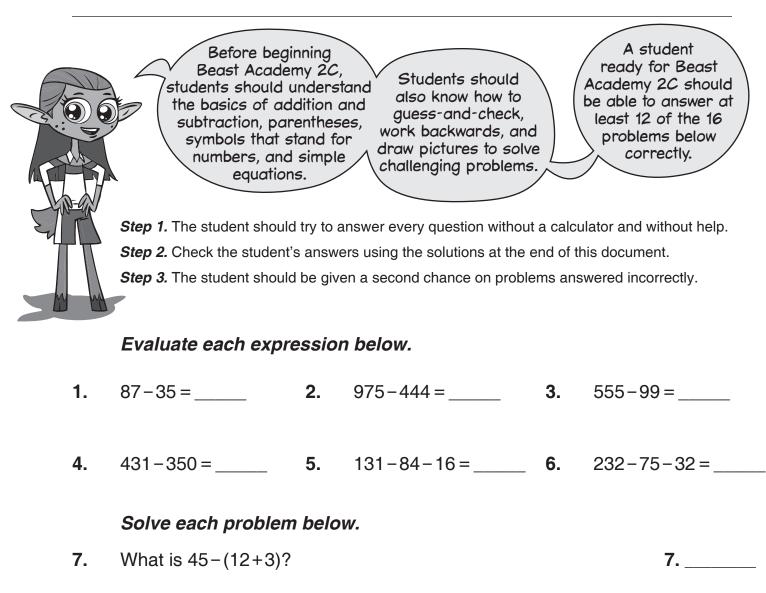


Are you ready for Beast Academy 2C?



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.

|7| |2| |8=44 45



Solve each problem below.

10. Evaluate the expression below when $\mathbf{C} = 9$ and $\mathbf{O} = 13$.



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

 \bigstar +2 \bigstar +3 \bigstar + \bigstar +

X =

Find the value of the symbol in each equation below.

12. + 12 = 35 **13.** + -1 = 15

• = _____

Solve each problem below.

- 14. One hundred monsters stand in a line. Arg is 15th in line. Burg
 14. _________
 is 25th in line. How many monsters are between Arg and Burg?
- 15. Each day, the number of leaves on a Magic Bush doubles. On 15. ______
 Friday, a Magic Bush had 96 leaves. How many leaves did the Magic Bush have on Monday, earlier that week?
- 16. Matt has 3 more pennies than Kim. Together, they have 2916. _____pennies. How many pennies does Kim have?



Are you ready for Beast Academy 2C?

Solutions

We subtract by place value.
 8 tens minus 3 tens is 5 tens.

7 ones minus 5 ones is 2 ones.

5 tens and 2 ones is 52. So, 87 - 35 = 52.

We subtract by place value.
 9 hundreds minus 4 hundreds is 5 hundreds.
 7 tens minus 4 tens is 3 tens.
 5 ones minus 4 ones is 1 one.

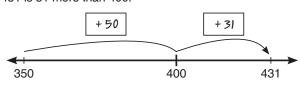
5 hundreds, 3 tens, and 1 one is 531. So, 975-444 = **531**.

3. Subtracting 99 is the same as subtracting 100, then adding 1.

So, 555–99 is the same as 555–100+1 = 455+1 = **456**.

4. To subtract 431–350, we can count up.

400 is 50 more than 350. 431 is 31 more than 400.



So, 431 is 50+31 = 81 more than 350. This means that 431-350 = 81.

5. Subtracting 84, then subtracting 16 more is the same as subtracting 84+16 = 100 all at once. So, we have

6. Subtracting 75, then subtracting 32 is the same as subtracting 32, then subtracting 75. So, we have

- 7. We evaluate what's in parentheses first. So, 45-(12+3) = 45-15 = 30.
- **8.** We place the parentheses as shown below to make a true equation.

16-(8-4-2)=14

9. Starting with 45, we must subtract 1 more than we add to get 44. Subtracting 7 then subtracting 2 subtracts a total of 9, which is 1 more than 8.

So, we subtract 7 and 2, and add 8.

10. We replace the **(** with 9 and each **(**) with 13. Then, we evaluate the expression as shown below.

Pip makes ★ cookies. Since Burt makes twice as many cookies as Pip, Burt makes ★+★ cookies.

So, Pip and Burt make $\bigstar + \bigstar + \bigstar$ cookies all together.



- **12.** Since 23 + 12 = 35, we have $\Phi = 23$.
- **13.** We subtract 1 from $\mathbf{X} + \mathbf{X}$ to get 15. So, $\mathbf{X} + \mathbf{X}$ is 1 more than 15, which is 16. Since $\underline{8} + \underline{8} = 16$, we have $\mathbf{X} = \mathbf{8}$.

We replace \blacksquare with 8 to check our answer: 8+8-1=15. \checkmark

14. To find the number of monsters between Arg and Burg, we draw a "picture" of monsters 15 to 25 and circle the monsters between Arg and Burg.

All together, we count **9** monsters between Arg and Burg.

15. We work backwards. On Friday, the Magic Bush had 96 leaves, which is twice as many leaves as it had the day before.

Since 48+48 = 96, the Magic Bush had 48 leaves on Thursday.

Since 24+24 = 48, the Magic Bush had 24 leaves on Wednesday.

Since 12+12=24, the Magic Bush had 12 leaves on Tuesday.

Since 6+6=12, the Magic Bush had **6** leaves on Monday.

16. We guess the number of pennies Kim has, then check the result.

If Kim has 10 pennies, then Matt has 10+3=13 pennies, and together they have 10+13=23 pennies. Not enough!

If Kim has 15 pennies, then Matt has 15+3=18 pennies, and together they have 15+18=31 pennies. Too many!

If Kim has 13 pennies, then Matt has 13+3=16 pennies, and together they have 13+16=29 pennies. Got it!

So, Kim has **13** pennies.