Name:_____

Date:_____

Class:_____

A Simple Task?

Setting up a tent ought to be simple for an experienced camper, right? That's not quite the story for Chad, who's having severe tent trouble today. It took him a long time to get it right (5^3 minutes, to be exact)! It took Basha 3^3 minutes. Toni set up her tent in 4^2 minutes. Zoey took 2^3 minutes. Matt beat them all by setting up his tent in 121 minutes less than Chad. This expression shows how much time was spent setting up tents today.

$$5^3 + 3^3 + 4^2 + 2^3 + (5^3 - 121) =$$

Oh! I just give up!

Chad

1. Evaluate the expression above to find out how much time each camper spent setting up his or her tent.

Chad _____   Zoey _____

Basha _____   Matt _____

Toni _____   Total time _____

Explain the expressions.

2. $4y - 2y^2$

3. x^8

4. $(-6 + 3)^3$

Write an expression to match the words.

5. 10 to the sixth power divided by 5

6. negative one-half to the third power

7. the square of the sum of 18 and 3

Evaluate each expression. Circle the right answer.

8. $(2^3)\,(5^2)$ 100,000   200   16,807

9. $(3n)^3 + 2^3$ $27n^3 + 8$ $125n^3$ $9n + 6$

10. $(-\frac{2}{5})^3$ $-\frac{6}{5}$ $-\frac{8}{15}$ $-\frac{8}{125}$

11. 72^0 -72   0   1

12. $(4 + 6)^6$ 1,000,000   6,000,000 46^6

13. $100 - 8^2$ 8,464   10,064   36

14. -2^5 -32   32   -10

15. -6^3 -18   -216   216

16. $a^6 + 8a^6 - 2a^6$ 279,936 $7a^6$ 7