

9.1 Puzzle Time

How Does A Bee Part His Hair?

Write the letter of each answer in the box containing the exercise number.

Evaluate the expression.

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|----------------------------------|---|
| 1. 3^3 | 2. -4^5 |
| 3. $(-2)^5$ | 4. $(-7)^4$ |
| 5. $\left(\frac{1}{5}\right)^3$ | 6. $\left(-\frac{1}{3}\right)^5$ |
| 7. $-\left(\frac{1}{4}\right)^3$ | 8. $\left -\left(\frac{1}{6}\right)^3\right $ |
| 9. $7^3 - 5^4$ | 10. $4 \bullet 3^4 + 6$ |
| 11. $2(11^3 - 10^3)$ | 12. $\frac{1}{8}(4^6 - 4^3)$ |
| 13. $ 6^3 - 7^3 $ | 14. $ 9^2 + (-9)^3 $ |
15. You are sending a package in the mail. The box is a cube measuring 14 inches on all sides. How many cubic inches is the package?
16. You sent an email to 8 friends. They each forwarded the email to 8 friends. And those friends each forwarded the email to 8 friends. The chain of emails is represented by the expression $8 + 8^2 + 8^3$. How many people were sent your email?

Answers

- S. $-\frac{1}{243}$
- T. -282
- C. 584
- I. -1024
- E. 662
- O. $\frac{1}{125}$
- I. 27
- O. 504
- H. 330
- B. 2744
- W. $\frac{1}{216}$
- H. 2401
- H. 127
- Y. 648
- M. $-\frac{1}{64}$
- N. -32

8	2	9	4		10	1	6		13	5	3	11	14	16	12	7	15
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