

LESSON **Puzzles, Twisters & Teasers**
1-2 Riddle Me This

What did the cucumber say to the vinegar?

To find out, choose the correct algebraic expression for each word phrase. Then find the letter associated with each expression you wrote to complete the decoder below.



1. 8 more than twice n

$8 - 2n$ **T** $8n + 2$ **U**

$2n - 8$ **V** $8 + 2n$ **P**

2. 3 less than the product of 4 and n

$3 - 4n$ **F** $3n - 4$ **G**

$4n - 3$ **K** $4n + 3$ **L**

3. 9 more than the product of 6 and n

$9 - 6n$ **F** $6n + 9$ **E**

$9n + 6$ **D** $6n - 9$ **G**

4. 3 more than the quotient of 4 and n

$\frac{4}{n} + 3$ **C** $\frac{n}{4} + 3$ **D**

$\frac{(n+3)}{4}$ **E** $\frac{n}{3} + 4$ **F**

5. 1 divided by the sum of 2 and n

$\frac{1}{2} + n$ **J** $\frac{(n+1)}{2}$ **K**

$\frac{1}{n} + 2$ **L** $\frac{1}{(2+n)}$ **I**

6. 5 less than n divided by 6

$\frac{n}{6} - 5$ **L** $\frac{n}{5} - 6$ **Q**

$5 - \frac{n}{6}$ **M** $6 - \frac{n}{5}$ **U**

7. $\frac{1}{3}$ of the sum of 9 and n

$9 + \frac{n}{3}$ **M** $\frac{1}{3}(9) + n$ **O**

$\frac{1}{3}(n+9)$ **N** $\frac{1}{3} + 9n$ **I**

8. 12 times the sum of 8 and n

$12(8) + n$ **S** $12(n-8)$ **T**

$12(n+8)$ **R** $12n + 8$ **U**

9. half the sum of n and 20

$\frac{1}{2}(20n)$ **B** $\frac{1}{2} + 20n$ **L**

$\frac{(n+20)}{2}$ **A** $\frac{n}{2} + 20$ **R**

10. twice the quotient of n and 10

$2(\frac{n}{10})$ **W** $2n + 10$ **M**

$2n - 10$ **N** $2 + \frac{n}{10}$ **O**

10	3	9	8	3	5	7
9	1	5	4	2	6	3