

# What Did the Firefly Say As the Sun Set?

Write an algebraic expression for the phrase. Cross out the number-letter pair above each correct answer. For each number-letter pair that you DON'T cross out, write the letter in the matching numbered box at the bottom of the page.



1. Let  $n$  represent an unknown number.

- eight more than the number
- three times the number
- the product of the number and eight
- three less than the number
- three decreased by the number

5•B	2•O	14•D	1•R	15•V	8•S	11•W
$8n$	$8 - n$	$8 + n$	$3 - n$	$3n$	$n - 3$	$n + 3$

2. Let  $k$  represent an unknown number.

- the sum of the number and two
- the quotient of the number and nine
- twice the number
- the difference of nine and the number
- nine less than the number

15•N	8•C	5•T	1•K	6•Y	14•O	10•A
$9 - k$	$k + 2$	$9k$	$2k$	$k - 9$	$k - 2$	$\frac{k}{9}$

3. Let  $x$  represent an unknown number.

- 4 times the sum of 7 and the number
- 4 times 7 plus the number
- 7 less than the product of 4 and the number
- 7 times the quantity 4 more than the number
- 4 times the quantity 7 less than the number

15•W	1•M	6•R	8•G	10•E	13•D	9•H
$7x + 4$	$4(x - 7)$	$4(7) + x$	$7(x - 4)$	$7(4 + x)$	$4(7 + x)$	$4x - 7$

4. Let  $u$  represent an unknown number.

- two-fifths of the number
- five more than twice the number
- five times the sum of the number and two
- one-fifth of the sum of the number and two
- half of the quantity five less than the number

10•A	13•R	9•E	1•G	6•O	3•B	12•H
$5(u + 2)$	$\frac{2u}{5}$	$\frac{u - 5}{2}$	$5u - 2$	$\frac{u - 2}{5}$	$5 + 2u$	$\frac{u + 2}{5}$

5. Let  $a$  represent Atom's age now.

- Atom's age in three years
- Atom's age four years ago
- four times Atom's age three years ago
- three times Atom's age in four years
- three years more than four times Atom's age

9•R	3•N	10•O	4•S	7•A	13•N	11•V
$4(a - 3)$	$a + 3$	$3(a - 4)$	$3(a + 4)$	$a - 4$	$4 - 3a$	$3 + 4a$

6. Let  $w$  represent the width of a rectangle. The length is 8 cm more than the width.

- 5 times the width
- the length
- 5 times the length
- 8 cm more than the product of 5 and the width
- one-eighth of the sum of 5 cm and the width



7•O	4•S	9•L	3•R	2•E	9•N	3•T
$w + 8$	$\frac{5 + w}{8}$	$8(w - 5)$	$5(w + 8)$	$5w$	$8 + 5w$	$\frac{w - 8}{5}$

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