

Cross off the letters of the correct answers. Once all of the problems have been solved, the answer to the riddle can be read from top to bottom.



Why don't Lobsters Share?

A	-5, -1
B	3
R	-15, -1
E	64
C	-16
T	4
A	-3, 7
N	16
U	2, 8
S	$1 \pm \sqrt{2}$
G	$-5 \pm \sqrt{18}$
E	-3, 21
T	4, 11
R	-5, 9
A	-1, 5
H	$5 \pm \sqrt{32}$
S	-1, 3
E	10
Y	$-3 \pm \sqrt{72}$
N	3, 15
R	$-3 \pm \sqrt{2}$
E	-9, -5
S	-2, 3
T	$6 \pm \sqrt{39}$
H	47, 51
E	$-9 \pm \sqrt{63}$
R	9
T	-21, 3
L	$-4 \pm \sqrt{8}$
L	-4, 8
N	$-3 \pm \sqrt{20}$
F	-1, 8
I	1, 5
R	$7 \pm \sqrt{51}$
S	9, 7
H	3, -12

Find the value of c that makes a perfect square.

1. $x^2 + 6x + c$ 2. $x^2 + 8x + c$ 3. $x^2 - 4x + c$

Solve by taking the square root of each side.

4. $(x - 9)^2 = 36$ 5. $(x + 3)^2 = 4$ 6. $(x - 2)^2 = 49$

Solve by completing the square.

7. $x^2 + 10x + 7 = 0$ 8. $x^2 - 2x - 3 = 0$

9. $x^2 + 16x + 15 = 0$ 10. $x^2 - 12x = 3$

11. $x^2 + 6x = 11$ 12. $x^2 - 4x = 5$

13. $2x^2 + 36x - 126 = 0$ 14. $-3x^2 + 42x = -6$

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	-5, -1
B	3
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	-1, 5
H	$5 \pm 4\sqrt{2}$
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Y	$-3 \pm 6\sqrt{2}$
	3, 15
R	$-3 \pm \sqrt{2}$
E	-9, -5
S	-2, 3
	$6 \pm \sqrt{39}$
H	47, 51
E	$-9 \pm 3\sqrt{7}$
	9
	-21, 3
L	$-4 \pm 2\sqrt{2}$
L	-4, 8
	$-3 \pm 2\sqrt{5}$
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I	1, 5
	$7 \pm \sqrt{51}$
S	9, 7
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Find the value of c that makes a perfect square.

1. $x^2 + 6x + c$

2. $x^2 + 8x + c$

3. $x^2 - 4x + c$

9

16

4

Solve.

4. $(x - 9)^2 = 36$

5. $(x + 3)^2 = 4$

6. $(x - 2)^2 = 49$

3, 15

-5, -1

-5, 9

Solve by completing the square.

7. $x^2 + 10x + 7 = 0$

8. $x^2 - 2x - 3 = 0$

$x = -5 \pm 3\sqrt{2}$

$x = -1, 3$

9. $x^2 + 16x + 15 = 0$

10. $x^2 - 12x = 3$

$x = -1, -15$

$x = 6 \pm \sqrt{39}$

11. $x^2 + 6x = 11$

12. $x^2 - 4x = 5$

$x = -3 \pm 2\sqrt{5}$

$x = 5, -1$

13. $2x^2 + 36x - 126 = 0$

14. $-3x^2 + 42x = -6$

$x = 3, -21$

$x = 7 \pm \sqrt{51}$

Because they're "shellfish"