What Happened When the Ghost DISAPPEARED In a FOG?

Solve using the quadratic formula, then cross out the letter pair next to your answer. When rounding square roots or final solutions, round to the nearest hundredth. For each letter pair that you DON'T cross out, write the uppercase letter in the box with the lowercase letter.

1 $2x^2 + 7x + 6 = 0$

2 $5b^2 - 11b - 12 = 0$

3 $m^2 - 7m + 2 = 0$

4 $2h^2 - 5h - 11 = 0$

5 $3x^2 + 2x = 8$

6 $n^2 + 8 = 15n$

7 $4a^2 + 9a + 1 = 0$

8 $5k^2 = 2k + 18$

9 $8t^2 + 6t = 35$

10 $3y^2 + 7 = 2y$

11 $2q^2 = 14 - q$

12 $0.5x^2 - 3x - 9.4 = 0$

Answers 1-4

c • L	3, −0.8
f • A	6, −1
d • S	3.91, −1.41
g • R	−1.5, −2
l • T	−2, 6
e • O	6.7, 0.3
b • I	5.44, −1.24

Answers 5-8

c • T	1.83, −2.43
h • G	2.11, −1.71
i • L	1.33, −2
g • S	12.75, 2.25
a • N	−0.12, −2.13
j • I	0.67, −4
k • E	14.45, 0.56

Answers 9-12

i • M	7.64, −3.44
h • T	*no solution*
k • S	3.16, −1.56
m • H	8.27, −2.27
k • N	1.75, −2.5
i • D	2.41, −2.91
e • W	1.5, −2.25

a	b	c	d	e	f	g	h	i	j	k	l	m

EXTRA: Can You Stop In Time?

When a driver needs to stop a car, the approximate stopping distance d (in feet) is given by the formula: $d = 0.05v^2 + 2.2v$, where v is the speed of the car (in miles per hour). Suppose a car travels 200 feet before stopping ($d = 200$). How fast was the car traveling?