

In Exercises 1–8, solve the equation. Check your solution.

1. $4x - 7 = -3x$

2. $8b + 2 = 3b + 12$

3. $7k + 24 = -16 - 3k$

4. $-5t + 7 = 11t - 25$

5. $6n + 1 = 2n - 7$

6. $8h + 5 - 3h = 8h - 4$

7. $g - 10 + 7g = 15 + 3g$

8. $-3(w + 4) = 4w - 5$

9. In the equation $35t + 70(7 - t) = 385$, the variable t represents the number of hours you drove at 35 miles per hour on a 385-mile trip. How many hours did you drive at 35 miles per hour?

In Exercises 10–13, solve the equation. Determine whether the equation has *one solution*, *no solution*, or *infinitely many solutions*.

10. $7y + 13 = 5y - 3$

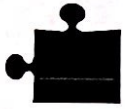
11. $8 + 9p = 9p - 7$

12. $3(7r - 2) = 21r - 6$

13. $2(3x + 6) = 3(2x - 6)$

14. Describe and correct the error in solving the equation.

\times	$2(s - 5) = 2(s + 5)$	This equation has infinitely many solutions
	$2s - 10 = 2s - 10$	
	$2s = 2s$	
	$0 = 0$	



Puzzle Time

Did You Hear About The Two Ducks In A Race?

A	B	C	D	E	F
G	H	I	J	K	L
M	N				

Complete each exercise. Find the answer in the answer column. Write the word under the answer in the box containing the exercise letter.

5, 9 FEET
-7, 7 THRILL
4 THE
-4, 2 AND
-7, -1 OF
-14, 7 FAST
17 RESULTED
$-\frac{1}{2}, \frac{1}{4}$ TIE
-3, 13 THE

Simplify the expression.

A. $|-7|$

B. $|-17|$

C. $|16| - |-16|$

D. $|\frac{36}{9}|$

Find the value of the variable which satisfies the equation. Check your solution.

E. $|x| = 7$

F. $|b| = -19$

G. $|w - 4| = 11$

H. $|x + 1| = 3$

I. $|x - 5| = 8$

J. $|x - 2| + 6 = 8$

K. $|x + 4| - 5 = -2$

L. $2|x - 3| = 2$

M. $6|x| = 24$

N. During last year's volleyball season, the coach concluded that the number of points you scored in each game could be given by the equation $|x - 7| = 2$. How many points did you score in each

0 IN
2, 4 SEVERAL
7 IT
-2, 2 WINNER
0, 4 AGONY
no solution OF
-4, 4 WEBBED
-7, 15 VICTORY
-11 SECOND