

Equations - Day 1-4
Assignment

Name _____
Date _____ Period _____

Word Problems

Set up each equation and solve for the variable.

1. Tisha wants to go to Corpus Christi this weekend. She plans to drive 50 miles per hour. Her distance can be calculated by using the equation $d = 50t$, where d is the distance she travels and t is the time in hours. If Corpus Christi is 125 miles away, how long will it take her to get there?
2. Justin works at Burger World and earns \$5.25 per hour. How many hours will it take for him to earn \$42?
3. The cost to repair Briana's car is \$156 for parts plus \$52 per hour. If her bill was \$312, how many hours did the mechanic work on Briana's car?

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Solve each equation. *SHOW ALL OF YOUR WORK!* Use your own paper if you need more space.

Solving for a Variable:

4. $5y - 4 + 3y = 12$

5. $13y - 7y = 12 - 36$

6. $-n + 7 - 2n + 5n - 3 = -6$

7. $2k + 8 - 5k = 26$

8. $8x - 3 - 2x = -45$

9. $15 = 7a + 3 - a$

10. The sides of a triangle are $(x + 2)$, $(3x + 1)$, and $(x + 7)$. Find the value of x if the perimeter is 140 cm.

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Distributive Property

11. $-3(x + 5) = 12$

12. $5(n + 6) + 24 = 9$

13. $5(w + 3) + 3(w + 1) = 14$

14. $x + 3(2x - 4) = -19$

15. $-16 = -4(x + 7)$

16. $-6(2x - 3) + 15 = 9$

17. The length of a rectangle is $(x + 5)$ and its width is $(x - 3)$. Find the value of x if the perimeter of the rectangle is 40 cm. ($P = 2l + 2w$)

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Solve each equation with a variable on both sides.

18. $-7x - 3x + 2 = -8x - 8$

19. $-8x + 4(1 + 5x) = -6x - 14$

20. $4x - 40 = 7(-2x + 2)$

21. $3(1 - 3x) = 2(-4x + 7)$

22. $7(5x - 4) - 1 = 14 - 8x$

23. $-10 + x + 4 - 5 = 7x - 5$