

Homework

1. General admission tickets to the fair cost \$3.50 per person. Ride passes cost an additional \$5.50 per person. Parking costs \$6 for the family. The total costs for ride passes and parking was \$51. How many people in the family attended the fair?

2. Angela ate at the same restaurant four times. Each time she ordered a salad and left a \$5 tip. She spent a total of \$54. Write and solve an equation to find the cost of each salad.

3. $6(3m + 5) = 66$

4. $-5(x - 3) = -25$

5. $\frac{x}{3} - \frac{1}{2} = \frac{3}{4}$

6. $\frac{b}{9} - \frac{1}{2} = \frac{5}{18}$

7. Shirley is going to have the exterior of her home painted. Tim's Painting charges \$250 plus \$14 per hour. Colorful Paints charges \$22 per hour. How many hours would the job need to take for Tim's Painting to be the better deal?

8. Tracey is looking at two different travel agencies to plan her vacation. ABC Travel offers a plane ticket for \$295 and a rental car for \$39 per day. M & N Travel offers a plane ticket for \$350 and a rental car for \$33 per day. What is the minimum number of days that Shirley's vacation should be for M & N Travel to have the better deal?

Solve each equation. Check your answer.

9. $7(h + 3) = 6(h - 3)$

10. $-(5a + 6) = 2(3a + 8)$

Determine whether each equation is an *identity* or whether it has *no solution*.

11. $4(3m + 4) = 2(6m + 8)$

12. $5x + 2x - 3 = -3x + 10x$

13. Stan is purchasing sub-flooring for a kitchen he is remodeling. The area of the floor is 180 ft^2 and the width of the kitchen is 12 ft. What is the length of the sub-floor?

Solve each equation for the given variable.

14. $4k + mn = n - 3; n$

15. $\frac{c}{d} + 2 = \frac{f}{g}; c$