Algebra 1 Warm Up Tuesday Week 3

Solve each equation. Be sure to show all of your work.

1. $-7 = b - 3$ 2. $10 = 15x$ 3. $\frac{1}{2} = y - \frac{3}{2}$ 4. $\frac{x}{-9} = 8$

5. List all of the number sets to which $\sqrt{36}$ belongs

6. Name the property that is being used.
   a) -3(2-4x)=-6+12x_____
   b) 16+(x-2)= (x-2)+16 _____

7. Write an algebraic express that represents:
   Ten less than the product of ***g*** and 4

8. Simplify: $8y - 2xy + 5x - 2(y^2 - 3xy + 4x)$

9. Is (-2, 5) a solution to y= -2x +9

take notes : write down problem and work

Solving Equations:

1. $x + 3 = 17$

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

3. $\frac{2x}{5} = 6$

4. $-5x = 20$

5. $\frac{4}{5}m = 28$

6. $2x + 3 = 15$

7. $\frac{1}{2}a - 5 = 18$

8. $\frac{x-7}{3} = -12$

9. $-t+8=3$

10. $-x-4(2+3x)=5$

11. The junior class is selling granola bars to raise money. They purchased 1250 granola bars and paid a delivery fee of $25. The total cost, including the delivery fee, was $800. What was the cost of each granola bar?

RTD Problems!!!

Rate x Time = Distance

1. Fred walked at 2 miles per hour. He walked for 6 hours.
   How far did he walk?

2. It is 9 miles to Food 4 Less. Mickey can ride her bike there in 1.5 hours.
   How fast is she riding her bike?

3. In an hour and a half, a zebra ran 42 miles. How fast did he run?

2-1.A HW Practice Solving One-Step Equations

Write an equation and solve the following R x T = D problems. Show all your work.

1. If Brenda strolled 16 miles at 4 miles per hour, how long was Brenda strolling?

2. Kathleen bicycled to Julie's house. It is 10 miles from Kathleen's house to Julie's house. It took Kathleen 2 hours to get there. How fast did Kathleen go?

3. It took Juan 10 hours to wander to Rose's house at 2 miles per hour. How far is it between Juan's house and Rose's house?

4. It took Lois 3 hours to bicycle to Jean's house at 9 miles per hour. How far is it between Lois's house and Jean's house?

5. Matthew ran 35 miles at 10 miles per hour. How long did Matthew run?

6. Frank skated to Terry's house. It is 35 miles from Frank's house to Terry's house. It took Frank 3 hours and 30 minutes to get there. How fast did Terry go?

7. Terry sprinted to Donna's house. It is 9 miles from Terry's house to Donna's house. It took Terry 1 hour and 30 minutes to get there. How fast did Terry go?

8. If Rebecca sprinted for 2 hours at 5 miles per hour, how far did Rebecca go?

9. It took Jonathan 4 hours to skate to Brandon's house at 6 miles per hour. How far is it between Jonathan's house and Brandon's house?

10. If Barbara rode for 2 hours and 30 minutes at 6 miles per hour, how far did Barbara go?

Hwk 2-1. B

Solve and check the following equations:

11. $-39 = \frac{q}{3}$ Check:

12. $\frac{3}{5}m = -15$ Check:

13. $2 + \frac{a}{4} = -1$ Check:

14. $10 + \frac{h}{3} = 1$ Check:

15. $-5x - 2 = 13$ Check:

16. $7 = \frac{x-8}{3}$ Check:

17. $4 = \frac{a+10}{2}$ Check:

Simplify:

18. $-2(-2x + 5)$ How is this problem different from #11-17?