Section 2

Solve each equation below.

16. $x-14=39$

17. $x+\frac{1}{3}=\frac{3}{5}$

18. $2x-15=43$

19. $\frac{y}{3}+4=15$

20. $5x+6x=99$

21. $7(x+4)=105$

Reduce each fraction below.

22. $\frac{5}{25x}$

23. $\frac{3x^2}{12x^6}$

Simplify each expression below. Make sure any fractions are fully reduced.

24. $9x-2x$

25. $\frac{2x}{25}\cdot\frac{5x}{16x}$

26. $\frac{3y}{13}+\frac{7y}{26}$

27. $\frac{3}{2z}-\frac{4}{5z}$

Translate each problem below into an equation and solve.

28. **How long did it take Ted to drive (in his new sports car) 272 miles if his average speed was 68 mph?**

29. Mr. Drysdale earned $906.25 in interest in one year on money that he had deposited in his local bank. If the bank paid an interest rate of 6.25%, how much money did Mr. Drysdale deposit?

30. There's some number that if you subtract 15 from it first, and then multiply that total by 7, the result is 28. Find the number.