Thurs. 4/14

Name: Loc Class: Mrs. Trainor

ALGEBRA

Solve.

1. 2 A number increased by 13 is 15. Find the number. $x+13=15$ $x=2$
2. 8 One-half of a number is 4. Find the number. $8-4=4$ $4+4=8$ $4\times2=8$ $\frac{1}{2}x=4$
3. 12 One-half of a number is 6. Find the number. $6\times2=12$ $\frac{1}{2}x=6$
4. 7 A number increased by 10 is 17. Find the number. $x+10=17$ $x=7$
5. 9 The sum of a number and five is 14. Find the number. $x+5=14$ $x=9$ $14-5=9$
6. 14 Three less than a number is 11. Find the number. $x-3=11$ $11+3=14$ $x=14$
7. 19 Five less than a number is 14. Find the number. $x-5=14$ $14+5=19$ $x=19$
8. 3 The sum of a number and two is 5. Find the number. $x+2=5$ $x=3$ $5-2=3$
9. 10 The sum of a number and seven is 17. Find the number. $x+7=17$ $17-7=10$ $x=10$
10. 8 Two less than a number is 6. Find the number. $x-2=6$ $6+2=8$ $x=8$
11. 20 A number diminished by 14 is 6. Find the number. $x-14=6$ $14+6=20$ $x=20$
12. 4 One-half of a number is 2. Find the number. $\frac{1}{2}x=2$ $2+2=4$ $x=4$
13. 17 A number diminished by 13 is 4. Find the number. $x-13=4$ $13+4=17$ $x=17$
14. 17 Fifteen less than a number is 2. Find the number. $x-15=2$ $15+2=17$ $x=17$
15. 7 The sum of a number and 15 is 22. Find the number. $x+15=22$ $22-15=7$ $x=7$
16. 4 The sum of a number and 10 is 14. Find the number. $x+10=14$ $14-10=4$ $x=4$
17. 19 A number diminished by 4 is 15. Find the number. $x-4=15$ $15+4=19$ $x=19$
18. 2 One-half of a number is 1. Find the number. $\frac{1}{2}x=1$ $1+1=2$ $x=2$

Problem of the Lesson

What is the first name of the 35th president of the United States?

To find the answer, evaluate each expression shown using $y = 4$.
The value of each expression tells you the position of the unknown letter in the alphabet.

J	O	H	N
$3y - 2$	$2y + 7$	$(28 - 3y) \div 2$	$(10 + 8y) \div 3$
10	15	$28 - 20 = 8$	

Problem of the Lesson

Simplify.

1. $6z + 2z - 5z$ $8z - 5z = 3z$
2. $10y - 2y - 4$ $10y - 2x = 8y - 4 = 4$
3. $9x + 5 + 2x - 3$ $9x + 2x = 11x + 5 = 16 - 3 = 13$

Problem of the Lesson

1. For what value of x will $5x - 3 = 32$ be true? $5 \times 7 = 35 - 3 = 32$ $5x - 3 = 32$ $+3 \quad +3$ 35
2. For what value of n will $3n + 4 = 6n - 11$ be true? $3n + 4 = 6n - 11$ $-3n \quad -3n$ $0 \quad 3n$ $4 = 3n - 11$ $+11 \quad +11$ $15 = 3n$ $\frac{15}{3} = \frac{3n}{3}$ $5 = n$