

Do Now

Evaluate $100h + 10t + u$.

1) $h = 7, t = 3, u = 4$

2) $h = 9, t = 0, u = 6$

3) $h = 5, t = 1, u = 0$

9.7

Puzzle Problems

- 1) The sum of the digits in a two-digit number is 15. If the digits are reversed, the new number obtained is 9 more than the original. Find the original number.

	Tens	Units	Value
Old			
New			

- 2) The sum of the digits in a two-digit number is 10. If the digits are reversed, the new number obtained is 18 more than the original. Find the original number.

	Tens	Units	Value
Old			
New			

3) Chan is three years older than Myra. Six years ago, Chan was twice as old as Myra was. Find their ages now.

Age	Now	6 years ago
Chan		
Myra		

4) Nine years ago, Frank was half as old as Marilyn. Now his age is two thirds her age. Find their ages now.

Age	Now	9 years ago
Frank		
Marilyn		

5) The denominator of a fraction is 4 more than the numerator. If 2 is subtracted from each, the value of the new fraction is $\frac{1}{5}$. Find the original fraction.

6) The denominator of a fraction is 2 more than the numerator. If 3 is added to both the numerator and denominator, the new fraction is equal to $\frac{5}{6}$. Find the original fraction

7) If 1 is subtracted from the numerator of a fraction, the value of the resulting fraction is $\frac{1}{2}$. However, if 7 is added to the denominator of the original fraction, the value of the resulting fraction is $\frac{1}{3}$. Find the original fraction.