## 1.2/1.3 Application Problems

1. Shawna purchased a purse that was 15% off the original price. She also used a \$5 off coupon. Her total savings was \$12.50, how much was the purse before any discounts?

percent to decimal 
$$15\% \longrightarrow 0.15$$

$$0.15x + 5 = 12.50$$

2. Tom, a plumber, charges \$47.50 per hour plus a service fee of \$25. He gave her an estimate that a job would cost no more than \$120. How many hours does Tom think the job will take?

3. A local bakery makes bread each morning. Each regular loaf of bread should weigh 16 ounces. Any loaves of bread that differ from the recommended weight by more than 4 ounces are used in the café for sandwiches. What is the weight range for loaves of bread used in the café? Graph the solution on a number line.