Do # 4 to 9.

4. Yasmine is a pharmaceutical sales representative. Her firm gives her a weekly allowance of \$300 to spend on lunches with physicians and their office staffs. A restaurant from which Yasmine often buys the lunches charges \$7 for a cold dish and \$11 for a hot dish, including drinks. If each meal is subject to a 5.75% sales tax, which of the following inequalities represents the number of cold dishes (c) and hot dishes (h) that Yasmine can purchase for sales-related lunches in one week, assuming she purchases all the lunches from this restaurant?

A) $7c + 11h \leq 1.0575(300)$

B) $7c + 11h \geq 1.0575(300)$

C) $1.0575(7c + 11h) \leq 300$

D) $1.0575(7c + 11h) \geq 300$

$1.0575(7c+11h) \leq 300$

* $A = P(1+r)^t$

5. If $\frac{5}{6} < \frac{1}{2}x - \frac{1}{2}y < \frac{3}{2}$, then what is one possible value of $x - y$?

$2\left(\frac{5}{6}\right) < 2\left(\frac{1}{2}x - \frac{1}{2}y\right) < \left(\frac{3}{2}\right)2$

$\frac{10}{6} < x - y < 3$

$1.666\ldots < x - y < 3$

If $\frac{1}{5}(4) < \frac{1}{5}(5x+5y) < (20)\frac{1}{5}$

what is $x+y$?

$.8 < x+y < 4$

6. What is the least possible integer value for which 40% of that integer is greater than 9.6?

A) 4

B) 12

C) 20

D) 25

→ $25(0.4) = 10$

$\frac{.4x}{.4} > \frac{9.6}{.4}$ $x > 24$