Warm Up Questions

A local farm has 15 animals consisting of cows and chickens.
 Determine the number of <u>each</u> if there are 40 legs on the farm.

Let
$$x = \#$$
 of cows
Let $y = \#$ of chickons
 $x + y = 15$ Solve for x
 $4x + 3y = 40$ (1) $4x + 3y = 40$

2. The next JMH play is called "The Love of Math". The tickets are \$5 for students and \$10 for adults. People are so excited that 261 tickets were sold in advance. How many student and adult tickets were sold if the total amount collected was \$1840.

Let
$$x = \#$$
 of students
Let $y = \#$ of adults
 $x + y = \partial G1$ $\frac{\text{solve fic}(x)}{\text{solve fic}(x)}$ (1) $x = -y + \partial G1$ (11) $x + y = \partial G1$
 $5x + \log = 1840$ (1) $5x + \log = 1840$ $x = \partial G1 - 107$
 $-5y + \log = 1840 - 1305$ (11) $5x + \log = 1840$ (12) $5x + \log = 1840$ (13) $5x + \log = 1840$ (14) $5x + \log = 1840$ (15) $5x + \log = 1840$ (16) $5x + \log = 1840$ (17) $6x + \log = 1840$ (17) $6x + \log = 1840$ (17) $6x + \log = 1840$ (18) $6x + \log = 1840$ (18) $6x + \log = 1840$ (19) $6x + \log = 1840$

1. The admission fee at a small fair is \$1.50 for children and \$4.00 for adults. On a certain day, 2200 people enter the fair and \$5050 is collected. How many children and how many adults attended?

Let
$$x = \#$$
 of children

Let $y = \#$ of adults

 $x + y = 2000$
 $x = -y + 2000$
 $x = 2000$

2. Nigel has \$6000 to invest. His bank offers an interest rate of 9% on an ABC investment and 11% on the GTA investment. If he makes \$572 in interest, how much did he invest in each one?