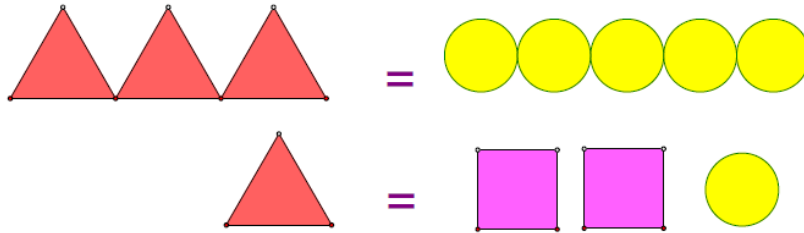


Problem Solving #5  
Geometry

1. In the diagram, two equal amounts are shown in separate equations. How many squares would it take to equal one circle?



2. The cost of entry for a county fair is \$1.50 for children and \$4.00 for adults. On a certain day, 2200 people pass through the gates and \$5050 is collected. How many children and how many adults attended?

3. A line goes through two points (4, 6) and (5, 13). Determine the equation of the line and write it in slope-intercept form or point-slope form.

Hint: Slope intercept form  $y=mx+b$

Point slope form is  $y - y_1 = m(x - x_1)$

4. At the beginning of the game “Clock 7”, the arrow points to one of the seven numbers. On each turn, the arrow is rotated clockwise by the number of spaces indicated by the arrow at the beginning of the turn. For example: if the arrow begins the game pointing at the 4, it would rotate clockwise 4 spaces so that it now points at 1. The arrow will then move 1 space on the next turn and so on. If the arrow points at 6 after the 21<sup>st</sup> turn, at which number did the arrow point after the first turn?

