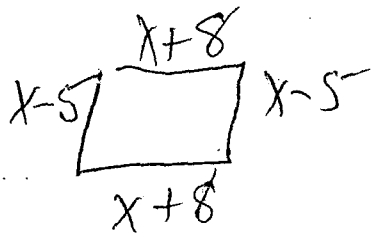
Name: _____

Do Now Key

1. A rectangle has a length of (x+ 8) and a width of (x- 5) feet.



a.) What is the equation of the perimeter of the rectangle?

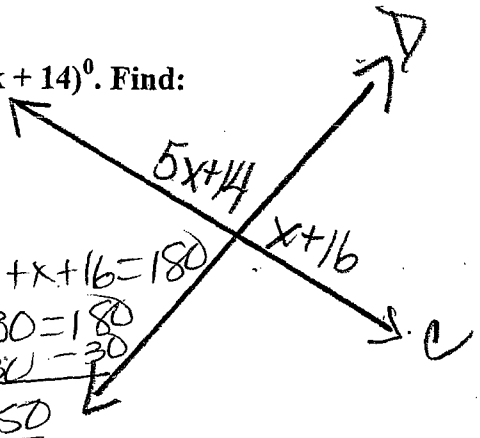
$P = x+8+x+8+x-5+x-5$

$P = 4x+6$

b.) Factor out the perimeter.

$2(2x+3)$ $\quad 2(4x+6$ / $2x+3$

2. Line C intersects Line D. If m>1 = (x + 16)^0 and m>2 = (5x + 14)^0. Find:



a.) The value of x 25

b.) The measure of angle 1 139°

c.) The measure of angle 2 41°

Only an algebraic solution will be accepted.

$5x+14+x+16=180$

$6x+30=180$

$-30 \quad -30$

$\frac{6x}{6} = \frac{150}{6}$ $\quad x = 25$

$x+16$ | $5x+14$

$25+16$ | $5(25)+14$

41 | $125+14$

139

3. The lacrosse team must sell 250 T-shirts to attend a camp this summer. They have already sold 76 shirts. Write an inequality to represent this situation, solve the inequality, and then graph the solution on the number line.

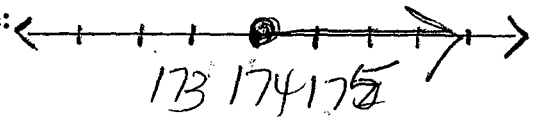
a.) Write an inequality $x + 76 \geq 250$

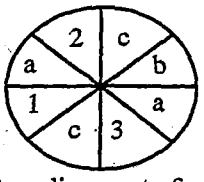
b.) Solve the inequality:

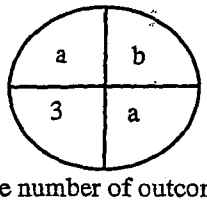
$-76 \quad -76$

$x \geq 174$

c.) Graph the solution on the number line:







A) Draw a tree diagram to find the number of outcomes between each spinner.

B) How many possible outcomes are there between the 2 spinners? $8 \cdot 4 = 32$

C) Find P (odd number, a) $\frac{4}{32} = \frac{1}{8}$

$\frac{2}{8}, \frac{2}{4} = \frac{4}{32}$