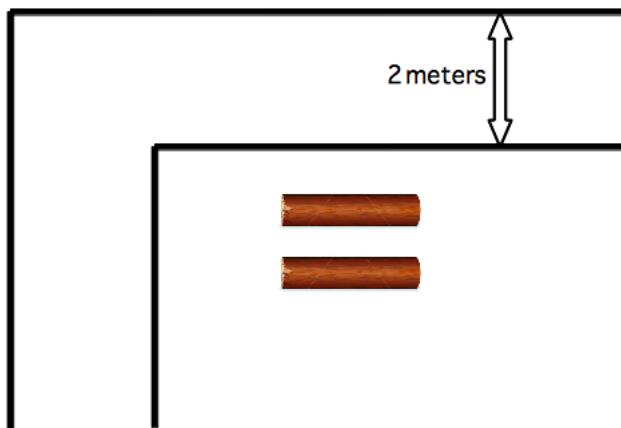


Problem Solving  
Early Elementary, meeting 5 Winter 2012

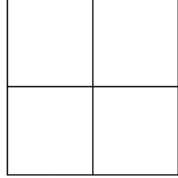
2/12/12

Kate and John need to cross the river in the picture below:

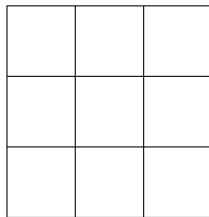




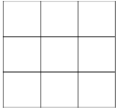
The river is 2 meters wide. The children have 2 logs. Each log is exactly 2 meters long. Can you build a bridge so that they can cross safely? Draw it on the picture.

1. How many squares are there in the picture below?



2. Same for:



Type of Square	Number of such squares
	
	
	

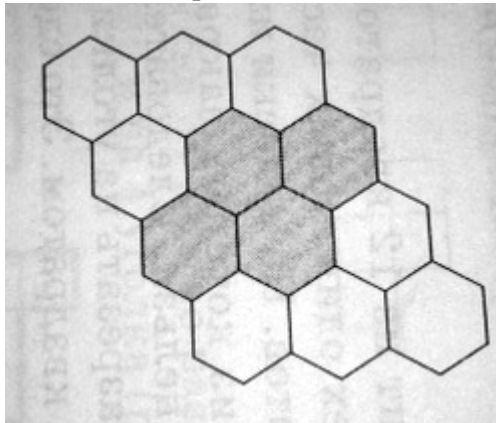
TOTAL NUMBER OF SQUARES:

3. Insert the missing digits:

$$\begin{array}{r} \phantom{+} 23 \\ + \square\square \\ \hline 68 \end{array} \qquad \begin{array}{r} \phantom{+} \square 7 \\ + 8\square \\ \hline 99 \end{array}$$
$$\begin{array}{r} \phantom{+} \square 9 \\ + \phantom{\square} \square \\ \hline 42 \end{array} \qquad \begin{array}{r} \phantom{+} \square 8 \\ + 2\square \\ \hline 41 \end{array}$$

4. Cut the shape below into 4 pieces so that:

- all the pieces are the same in size;
- all the pieces have the same shape;
- each of the pieces contains one shaded square;



5. A square filled with numbers is *magic* if the sums of the numbers in any column, row or diagonal are the same.
- Fill in the numbers 4, 6, 10, 11 and 12 so that the square below is magic.

5	10	9
	8	

6. Cory has 10 more books than Lauren. Cory gave Lauren 3 books. How many more books does Cory have now?