

Lesson 1-6

Problem

A printer is printing signs for a club at a high school. The club wants 3 sizes, each of which has a width that is one-fourth the length. If the lengths chosen are 1 ft, 2 ft, and 3 ft, find each width, perimeter, and area.

Solve the Problem

To find the values of the perimeter and area for the rectangle with length equal to whole numbers 1, 2 and 3 and widths equal to one-fourth the length, a spreadsheet can be used. The rule or formula for generating each value is shown in each cell. Note that Row 1 and Column A are used for headings. The other cells are used to store data and formulas.

	A	B	C	D	E
1		Length	Width	Perimeter	Area
2	R1	1	$B2 * 0.25$	$2 * B2 + 2 * C2$	$B2 * C2$
3	R2	$B2 + 1$	$B3 * 0.25$	$2 * B3 + 2 * C3$	$B3 * C3$
4	R3	$B3 + 1$	$B4 * 0.25$	$2 * B4 + 2 * C4$	$B4 * C4$

After entering the formulas and data in the spreadsheet, your results should look like this.

	A	B	C	D	E
1		Length	Width	Perimeter	Area
2	R1	1	0.25	2.5	0.25
3	R2	2	0.5	5	1
4	R3	3	0.75	7.5	2.25