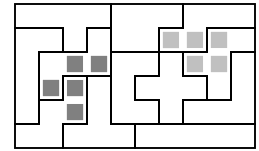# Puzzle 16: The Motley Fool

motley (adj.) - marked by a mixture of usually startlingly diverse or haphazardly arranged colors

Among your puzzle props you should find twelve multi-colored, plastic pentomino pieces. You should assemble them into a 6×10 rectangle. That's a pretty standard challenge, so I hope it does not take too long. However, here's the real challenge. You are trying to decode the following message:

$$\_\_ \quad \_\_\_\_\_ \quad _____ \quad \_\_\_\_\_ \quad \_\_\_ \quad _____,$$
$$\_\_\_\_ \quad \_\_ \quad \_\_\_ \quad _____ \quad \_\_\_\_\_?$$

I will reveal letters for you in this message, "Wheel-of-Fortune" style, according to which pentomino shapes you are able to form using the *colored squares* in the final configuration you assemble. Below is a chart showing which pentomino shapes offer which choices of letters to reveal. For each shape formed, you may only choose to reveal one of the letters (though, if you form a particular shape twice, using two different colors of squares, then you could chose two different letters represented by that shape). Note that shapes formed in your constructed rectangle *may be rotated* to match the entries below, but they *may not be flipped*.

Shapes	Letters		Shapes	Letters		Shapes	Letters
	B, H, or Q			I or L			S
	C, N, or U			J			T
	D or P			L			T or X
	E, M, or W			L, R or V			Y
	F or R			N or Z			Z

In the 6×10 example at the upper right corner of this page, the five dark gray squares happen to form the shape: , and thus you could choose to have me reveal either all of the Rs or Fs in the message above. The light gray squares form the shape: , and you could chose either Ds or Ps to be shown (but not Bs, Hs, or Qs, because that would require the shape to be flipped not just rotated).

When you have your 6×10 rectangle constructed (you may only submit one answer during the Puzzle Party), bring it to me. It will be checked, and your choices for letters may be made. I will then print out the message above with all instances of your chosen letters filled in, and you may return to your team with that partial message.

> My lungs began to crow like chanticleer,
> That fools should be so deep-contemplative,
> And I did laugh sans intermission
> An hour by his dial. O noble fool!
> A worthy fool! Motley's the only wear.
>   -- "As You Like It", William Shakespeare