



# Preface to Fear Factor

*Ken, James, and Brad found themselves in jeopardy of being voted off a remote tropical island!*

*We interviewed one of them here:*

“Ok, so that immunity challenge went pretty bad. I may have dropped the key we needed to open a chest with our puzzle pieces into the bottom of the ocean. Whoops. But I’m not too worried because yesterday I went searching through the jungle for 3 hours and found an advantage! Hopefully no one noticed I was gone.

“I can only use it once, so I’m definitely not going to use it now. Everyone loves me and wants to work with me. I know because they say so to my face, and when I walk up to them, they stop what they’re talking about and avoid eye contact. I’m pretty good at reading people, and my tribemates have ‘trustworthy’ written all over their nervous smiles.

“But, just in case, I will be bringing the advantage to tribal council. If I feel like something is off, I might have to play it.”

*Will this contestant realize he’s in danger of being voted out? Or will he waste his lifeline to stay in the game?*



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# Fear factor

You may know it as the fear of factoring, but we like to call it paragontopophobia.

Problem 1.

$$abc - 11ab - 9ac - 6bc + 99a + 66b + 54c - 594$$

Problem 2.

$$ab - 8a - 7b + 56$$

Problem 3.

$$ab - 2a - 6b + 12$$

Problem 4.

$$ab - 3a - 8b + 24$$

Problem 5.

$$ab - 6a - 2b + 12$$

Problem 6.

$$abc - ab - 5ac - 4bc + 5a + 4b + 20c - 20$$

Problem 7.

$$ab - 4a - 3b + 12$$

Problem 8.

$$ab - 5a - b + 5$$

Problem 9.

$$a - 2$$