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Exercise 5

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Exercise 5

8/8 points (graded)

In the lecture, you saw a uniform and a normal distribution. There is another type of distribution, called an exponential distribution. For the following real-life situations, fill in the blank with the appropriate distribution model (normal, uniform, or exponential) that would best simulate the situation.

1. Rolling a fair 6-sided die

uniform

✓

2. Sum of rolling 2 fair 6-sided dice

normal

✓

3. Women's shoe sizes

normal

✓

4. Human intelligence (IQ) scores

normal

✓

5. Amount of mold on bread, assuming an infinite supply of bread

exponential

✓

6. The winning lottery numbers

uniform

✓

7. Skilled person throwing darts at a dart board

normal

✓

8. Radioactive decay (time between successive atom decays)

exponential

✓

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Exercise 5

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<div><div></div><div><u>Why is the sum of two fair 6-sided dies a normal distribution?</u> It has got a triangular form.</div></div>	2
<div><div></div><div><u>Mold is 'a fungus that eats the organic compounds found in bread and other foods.'</u> Being non-native speaker, this is quite an unintelligible sentence for me. First, I struggled with the meaning of the word 'mold'. My fir...</div></div>	1
<div><div></div><div><u>Mold on bread</u> "amount of mold on bread"... are we looking across different loaves of bread or across the same bread over time? we get a different ...</div></div>	2

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