

Fizz Quiz

Thu May 10 2018

Name:

1. In the worse-case scenario, how many yes/no questions will we need in order to guess a number in the following ranges. For each case, build a decision tree to justify your answers
 1. 0-1
 2. 0-2
 3. 0-4
 4. 0-8
 5. 1-4
 6. 1-8
2. For the previous ranges, what is the **information** that we lack in each case before we guess the right answer?
3. For the following values, write their binary representation.
 1. 12
 2. 27
 3. 31
 4. 57
 5. 167
4. What is the approximate value of the logarithm in base 2 of each of the previous numbers?