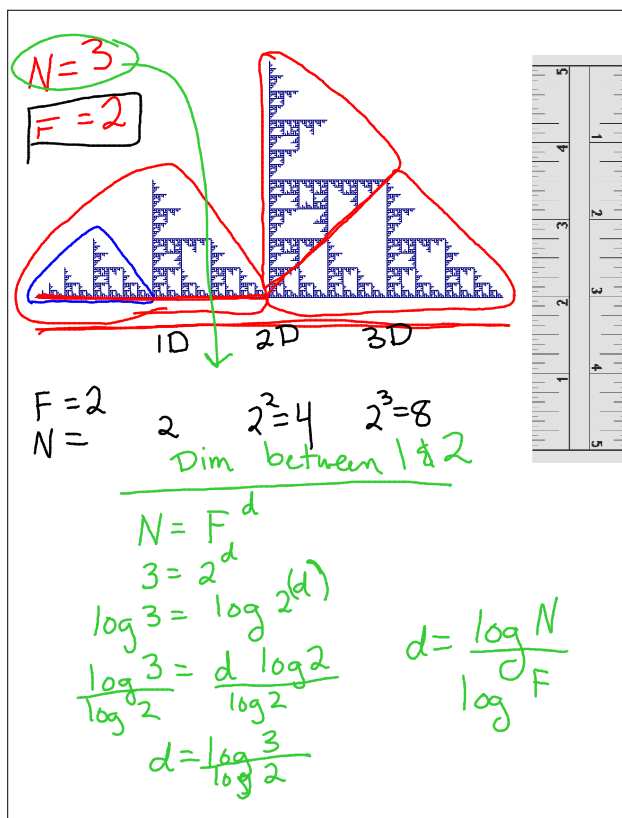
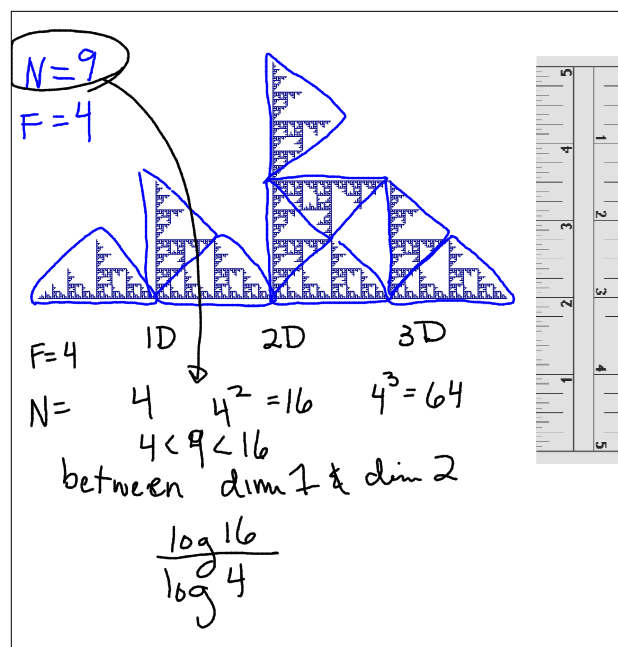
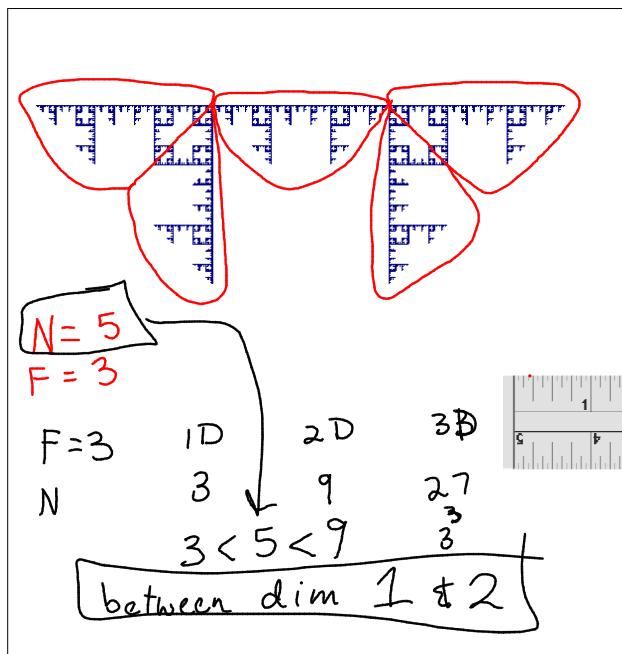




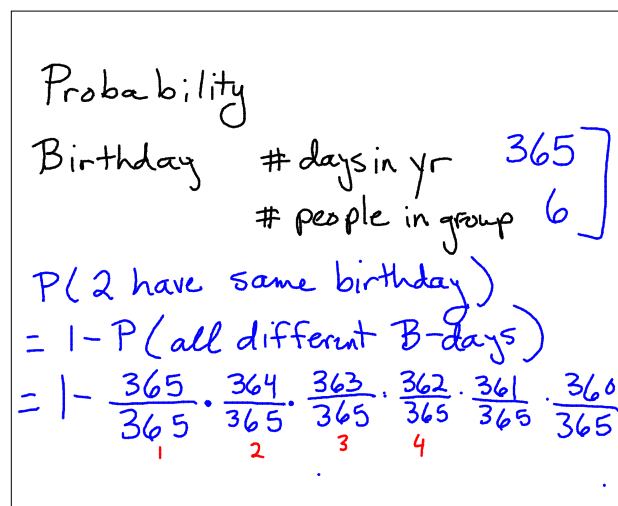
Oct 20-12:33 PM



Oct 20-12:33 PM



Oct 20-1:03 PM



Oct 20-1:09 PM

Dice 20 sidedPeople 6 people $P(\text{all \#s are different})$ $P(2 \text{ the same}) = 1 -$

$$P(\text{all different}) = \frac{20}{20} \cdot \frac{19}{20} \cdot \frac{18}{20} \cdot \frac{17}{20} \cdot \frac{16}{20} \cdot \frac{15}{20}$$

$$= .436$$

$$P(2 \text{ the same}) = 1 - .436$$

$$= .564$$

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Dice 20 sidedPeople 6 people $P(\text{someone rolls a 4}) = 1 -$ $P(\text{no-one rolls a 4})$

$$P(\text{no 4's}) = \frac{19}{20} \cdot \frac{19}{20} \cdot \frac{19}{20} \cdot \frac{19}{20} \cdot \frac{19}{20} \cdot \frac{19}{20}$$

$$= \left(\frac{19}{20}\right)^6 = .735$$

$$P(\text{someone rolls 4}) = 1 - .735$$

$$= .265$$

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$$P_{n+1} = 2P_n(1-P_n) + P_n \quad P_0 = .3$$

$$P_1 = .72$$

$$P_2 = 2(.72)(1-.72) + .72$$

$$f(z) = \bar{z} \cdot z + .2i \quad z_0 = 0$$

$$= 0 + .2i \quad z_1 = .2i$$

$$f(z) = \bar{z} \cdot z + .2i$$

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