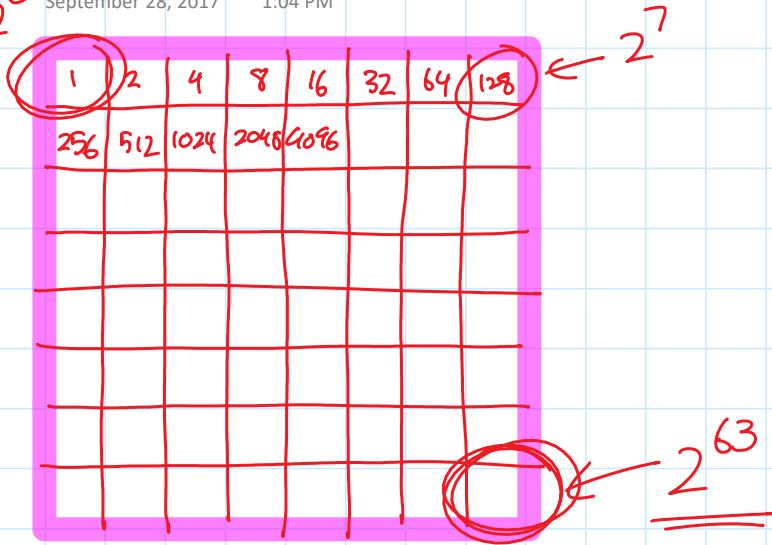


Chess Board Problem

2⁰ September 28, 2017 1:04 PM



$$9.22... \times 10^{18}$$

9,220,000,000,000,000,000,000,000 grams

9 quintillion grams \times 0.015625 grams

$$1.44 \times 10^{17} \text{ grams}$$

$$\downarrow \div 1000 \quad 10^3$$

$$1.44 \times 10^{14} \text{ kg}$$

$$10^{17} \div 10^3$$

$$1.44 \times 10^{11} \text{ tons}$$

144,000,000,000 tons

$$\downarrow \div 300\,000$$

480 383 960

eg. Mass of a hydrogen atom

$$1.66 \times 10^{\overline{-24}} \text{ g}$$

$$\begin{aligned} 10^3 &= 1000 \\ 10^2 &= 100 \\ 10^1 &= 10 \\ 10^0 &= 1 \\ 10^{-1} &= 0.1 \\ 10^{-2} &= 0.01 \end{aligned}$$

$$= 0.000\,000\,000\,000\,000\,000\,000\,000\,166 \text{ g}$$

$$0.000\,000\,72$$

$$= \underline{7.2} \times 10^{-7}$$

$$\begin{aligned} &\underline{\underline{8 \times 10^{-5}}} \\ &0.00008 \end{aligned}$$

Monday: Review

Wed: Test Oct 4th

HW: Chapter 2 Review in text

p 87-89 # 1-27 odd letters