

Precalculus

11.2 HW

Odd Answers

1. a. {HELP, HEPL, HLEP, HLPE, HPEL, HPLE, EHLP, EHPL, ELHP, ELPH, EPHL, EPLH, LHEP, LHPE, LEHP, LEPH, LPHE, LPEH, PHEL, PHLE, PEHL, PELH, PLHE, PLEH}
b. $12/24 = 1/2 = 0.5$
c. $6/24 = 1/4 = 0.25$

3. a. $2/12 = 1/6 \approx 0.167$
b. $8/12 = 2/3 \approx 0.667$
c. $6/12 = 1/2 = 0.5$

5. a. 156,000,000
b. $\frac{240,000}{156,000,000} = \frac{1}{650} \approx 0.00154$
c. $\frac{9,750,000}{156,000,000} = \frac{1}{16} = 0.0625$

7. a. $3/21 = 1/7 \approx 0.143$
b. $6/21 = 2/7 \approx 0.286$
c. $12/21 = 4/7 \approx 0.571$

9. a. $792/8568 = 11/119 \approx 0.0924$
b. $6/8568 = 1/1428 \approx 0.000700$
c. $3300/8568 = 275/714 \approx 0.385$
d. $180/8568 = 5/238 \approx 0.0210$

11. $\frac{2,673,929,820,276,000}{17,325,788,897,318,616} \approx 0.154$

13. a. $\frac{1}{175,711,536} \approx 5.69 \times 10^{-9}$
b. $\frac{255}{175,711,536} \approx 1.45 \times 10^{-6}$
c. $\frac{208,250}{175,711,536} \approx 0.00119$