## **Leaky Faucet**



Jan estimates that the faucet in her kitchen drips at a rate of 1 drop every 2 seconds.

1. Estimate how many times the faucet drips in a **week**. Show your calculations.

7 days = I week

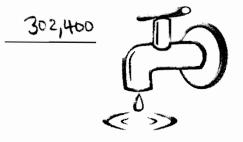
60 × 60 × 24 × 7 = 604800

Jan estimates that approximately 575 drops fill a 100 milliliter bottle.

2. Estimate how much water her leaky faucet wastes in a year.  $\sim$  2742300 milliters Show how you figured it out.

Jan estimates that the faucet in her kitchen drips at a rate of 1 drop every 2 seconds.

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60minutes

24 nours

1 minute

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2. Estimate how much water her leaky faucet wastes in a year. 2742 liters Show how you figured it out.

24 MVS 43200 365 days

15768000/515 = 2

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$$\frac{2224800)(4) = 23 \times \frac{575 \text{ days}}{100 \text{ mL}} = \frac{23 \text{ days}}{4 \text{ mL}} = \frac{1}{150} \times \frac{1}{150}$$

X = 386921.739 mL & 386922 mL

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302400 drops a week

52w - Iyear

lyear-15724800 drops

525 drops = 100 milliters

$$\frac{15724800}{575} = 27347,47 (100)$$