

Flash Cards

20 min
a day
until

(snap) Mastery

Example

A Siberian tiger was observed sleeping 1,287 minutes during the course of one day. If he slept for that long every day, how many minutes would he sleep in one year? Assume there are 365 days in one year.

STEP 1 Estimate: $1,287 \times 365$

Think: $1,000 \times 400 = 400,000$

STEP 2 Multiply by the ones.

$1,287 \times 5 \text{ ones} = 6,435 \text{ ones}$

STEP 3 Multiply by the tens.

$1,287 \times 6 \text{ tens} = 7,722 \text{ tens, or } 77,220 \text{ ones}$

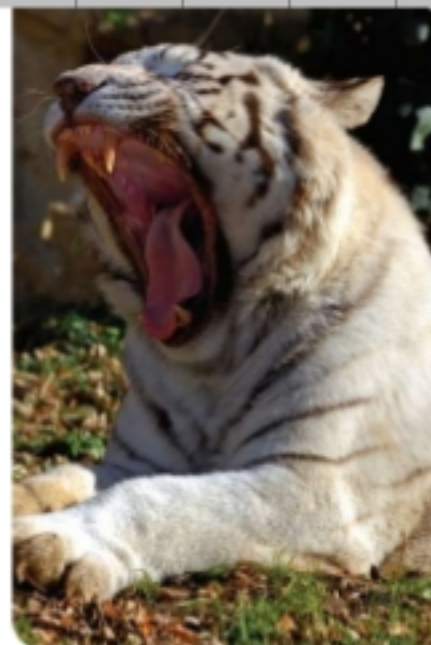
STEP 4 Multiply by the hundreds.

$1,287 \times 3 \text{ hundreds} = 3,861 \text{ hundreds, or } 386,100 \text{ ones}$

STEP 5 Add the partial products.

$1,287 \times 365$

So, the tiger would sleep _____ minutes in one year.



$$\begin{array}{r} 1287 \\ \times 365 \\ \hline 16435 \\ 77220 \\ + 386100 \\ \hline 469755 \end{array}$$

minutes of
sleep in a
year for that
Tiger.....

Math
Talk

MTR 6.1 Assess the reasonableness of solutions.

Are there different numbers you could have used in Step 1 to find an estimate that is closer to the actual answer? Explain.