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The diagram illustrates the conversion of the number 2000 to 0.002 through a series of steps:

- Step 1:** The number 2000 is shown in a grid. The columns are labeled from left to right as 千の位 (Thousands place), 百の位 (Hundreds place), 十の位 (Tens place), 一の位 (Ones place), $\frac{1}{10}$ の位 (Tenths place), $\frac{1}{100}$ の位 (Hundredths place), and $\frac{1}{1000}$ の位 (Thousandths place).
- Step 2:** The first "10倍" (10 times) arrow moves the digit 2 from the thousands place to the hundreds place.
- Step 3:** The second "10倍" (10 times) arrow moves the digit 0 from the hundreds place to the tens place.
- Step 4:** The third "10倍" (10 times) arrow moves the digit 0 from the tens place to the ones place.
- Step 5:** The fourth "10倍" (10 times) arrow moves the digit 2 from the ones place to the tenths place.
- Step 6:** The first " $\frac{1}{10}$ ($\div 10$)" arrow moves the digit 0 from the tenths place to the hundredths place.
- Step 7:** The second " $\frac{1}{10}$ ($\div 10$)" arrow moves the digit 0 from the hundredths place to the thousandths place.
- Step 8:** The third " $\frac{1}{10}$ ($\div 10$)" arrow moves the digit 2 from the thousandths place to the next column.

The final result is 0.002, where the digits 0, 0, and 2 are positioned in the hundredths, thousandths, and ten-thousandths places respectively.

- ① 2の1000倍の数は、
② 2の $\frac{1}{1000}$ の数は、