Stop or Repeat?: Extra Practice

Every fraction of integers turns into a decimal that stops or repeats. Write the fraction in simplest form and look at the bottom: only 2s and 5s means it stops; any other factor means it repeats. For a mixed number, keep the whole number and divide just the fraction part.

Name: _____ Date: _____

1. Will 5 eighths stop or repeat?

2. Will 2 ninths stop or repeat?

3. Will 6 fifteenths stop or repeat?

4. Will 7 thirtieths stop or repeat?

5. Write 1 and 1 third as a decimal.

6. Write −2 and 1 fourth as a decimal.

7 Write 3 and 5 sixths as a decimal.

8 Is $0.4\overline{5}$, the decimal 0.4545... with the 45 repeating, a rational number? Why?