7.1.6 Terminate or Repeat Extra Practice

Name: _____

How do you recognize denominators that will result in a terminating decimal?

Which of these fractions will NOT repeat?

4	11	73	6	975	386	92
30	200	15	45	256	600	80

Turn these repeating decimals back into fractions:

0.26

0.123

4.42

1.0342

0.09876

Answers:

How do you recognize denominators that will result in a terminating decimal? Denominators with prime factorization of only 2's and/or 5's will terminate. Any other factor will make it repeat.

Which of these fractions will NOT repeat?



Turn these repeating decimals back to fractions. Simplify to lowest terms (always!) No mixed numbers (ever!)

0.26	26 99
0.123	<u>41</u> 333
4.42	<u>146</u> 33
 1.0342	3413 3300
0.09876	<u>9876</u> 99990