

Name \_\_\_\_\_

# Rational and Irrational Numbers

Without actual division, find which of the following rational numbers are terminating decimals:

**Rule:** A rational number  $p/q$  is expressible as a terminating decimal only when prime factors of  $q$  are 2 and 5 only.

1)  $\frac{3}{8}$  \_\_\_\_\_ 9)  $\frac{18}{40}$  \_\_\_\_\_

2)  $\frac{12}{35}$  \_\_\_\_\_ 10)  $\frac{20}{30}$  \_\_\_\_\_

3)  $\frac{17}{55}$  \_\_\_\_\_ 11)  $\frac{44}{60}$  \_\_\_\_\_

4)  $\frac{9}{16}$  \_\_\_\_\_ 12)  $\frac{10}{35}$  \_\_\_\_\_

5)  $\frac{5}{18}$  \_\_\_\_\_ 13)  $\frac{45}{160}$  \_\_\_\_\_

6)  $\frac{8}{30}$  \_\_\_\_\_ 14)  $\frac{35}{60}$  \_\_\_\_\_

7)  $\frac{45}{80}$  \_\_\_\_\_ 15)  $\frac{35}{100}$  \_\_\_\_\_

8)  $\frac{15}{50}$  \_\_\_\_\_ 16)  $\frac{8}{28}$  \_\_\_\_\_