Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period:\_\_\_\_\_\_\_\_\_ Number:\_\_\_\_\_\_\_\_\_\_

# 1.2a Notes – Fractions to Decimals

Does every rational number have a decimal expansion?\_\_\_\_\_\_\_\_\_\_\_\_\_Why?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Does every **irrational** number have a decimal expansion?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Find the decimal expansion for the following rational numbers:

|  |  |
| --- | --- |
| Ex #1: 5 | Ex #2: 0 |
| Ex #3: $\frac{2}{5}$ | Ex #4: $\frac{4}{20}$ |
| Ex #5:$ \frac{7}{9}$ | Ex #6: $ -4\frac{5}{6}$ |

Last one: Show this to your teacher when you’re done!

$$8\frac{4}{11}$$