|  |  |  |
| --- | --- | --- |
| Name: | Class: | Date: |

**2.6 Writing Fractions as Decimals:**

Generally, we convert a fraction into a decimal by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ by the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Examples given on page 52:

\* 3/10 = 0.3 \* 15/100 = 0.15 \* 243/1000

*What do you notice*: How do the number of zeroes in the denominator of the fraction and the number of places in the decimal compare?

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

When the denominator of a fraction is not a power of 10 there are two ways to find its decimal:

1. Find an equivalent fraction with a denominator that is a power of 10.

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| --- | --- | --- |
| Fraction | Equivalent Fraction | Decimal |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

1. Simply just divide the numerator of the fraction by its denominator.

|  |  |  |
| --- | --- | --- |
| Fraction | Division | Decimal |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
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* A *Terminating Decimal* is a decimal that results when we divide a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ by a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and find that \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ stops because the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ becomes \_\_\_\_\_.
* A *Repeating Decimal* results when the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ does not become \_\_\_\_ and the decimal \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ so that \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ does not stop. We use a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ over the digit or digits that \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Examples:

1. 3/5
2. 1 7/8
3. 5/11

|  |
| --- |
| Instructions for homework:  Page 53  #1-49 (Odds only)   * Do #1-33 manually   (#19-33 show work)   * Use a calculator for #35-49 |