1.7 Conversion Between Decimals and Fractions

In this worksheet, we will practice converting between decimals and fractions. If you would like further explanation before attempting these problems, links to video descriptions can be found at the end of this worksheet. Starred problems have video solutions.

1 Convert the following decimals into fractions.

- * 0.25

- 0.222

- 0.35

- * 0.035

- 0.4667

- * 0.59831

- 1.5

- 4.39

- * 9.125

2 Convert the following fractions into decimals.

- $\frac{7}{10}$

- $*$ $\frac{379}{1000}$

- $\frac{29}{50}$

- $*$ $\frac{3}{250}$

- $\frac{2677}{1000}$

- $*$ $\frac{3}{12}$

- $\frac{19}{200}$

- $*$ $\frac{6049}{2500}$

Additional Resources:

- Khan Academy gives a detailed description of converting decimals and fractions `https://www.khanacademy.org/math/cc-seventh-grade-math/cc-7th-fractions-decimals/cc-7th-fracs-to-decimals/v/decimals-and-frac`

- A detailed solution to starred parts of #1: `https://www.youtube.com/watch?v=88xJ5PK0Uws&index=25&list=PLiADMg9o4gHkkZtafnIxRpRuybCBcEWjq`

- A detailed solution to starred parts of #2: `https://www.youtube.com/watch?v=JAvQstTBGlQ&list=PLiADMg9o4gHkkZtafn` 26