

Warm-Up Notes

MAT 100: ELEMENTARY ALGEBRA

— Fall 2026 —

SECTION 1.7 DECIMALS

Install — 10 minute lesson

Objectives of this Section

- Name and write decimals
- Round decimals
- Add and subtract decimals
- Multiply and divide decimals
- Convert decimals, fractions, and percents

Skills**Introduced in this section:**

- **FRC.DP** — Converting Decimals and Percents
- **FRC.FD** — Converting Fractions and Decimals

Also practiced: WRD.NM (Naming the model).

Lesson

A decimal is just a fraction whose denominator is a power of ten, wearing a different outfit. Once you can see the power of ten hiding inside a decimal, you can multiply decimals by counting places, turn a decimal into a fraction by naming its place value, and read a percent as a fraction of a hundred — all with the same idea.

I do

Watch. When the Szetos sold their home, the selling price was 500% of what they had paid for the house 30 years ago. Explain what 500% means in this context.

We do

Together. Multiply the following decimals. Show your work. $(0.06)(21.75)$

You do

Your turn. Multiply the following decimals. Show your work. $(0.08)(52.45)$

Your turn. Write the decimal 0.78 as a fraction.

Practice

1. Convert the fraction $13/20$ to a decimal.

2. Convert the percent 7.8% to a decimal.

3. Name the decimal. -31.4

4. Convert the decimal 0.03 to a percent.