



Monday – Fractions to Decimals

Big Idea: Fractions and decimals are different ways of representing the same number.



Mild: Write $\frac{1}{2}$ as a decimal.



Medium: Write $\frac{3}{8}$ as a decimal. Is it recurring or non-recurring?



Spicy: Write $\frac{1}{6}$ and $\frac{1}{3}$ as decimals. What do you notice about the patterns?



Tuesday – Decimals to Fractions

Big Idea: Decimals can always be written as fractions based on place value.



Mild: Write 0.4 as a fraction.



Medium: Write 0.125 as a fraction in simplest form.



Spicy: Write 0.1616... as a fraction. Explain how you know it's recurring.

Wednesday – Mystery Decimal Numbers

Big Idea: Place value helps us describe and identify numbers using their digits.

 **Mild: My number is less than 5. It has a 7 in the tenths place. What could my number be?**

 **Medium: My number is greater than 20 but less than 30. The ones digit is odd, and the tenths digit is even. What could my number be?**

 **Spicy: My number is greater than 50 but less than 60. It rounds to 53 when rounded to the nearest whole. The hundredths digit is 9. What could my number be?**

Thursday – Rounding Decimals

Big Idea: Rounding decimals helps us estimate and simplify numbers based on place value.

 **Mild: Round 6.72 to the nearest whole number.**

 **Medium: Round 45.387 to the nearest tenth.**

 **Spicy: A number rounds to 8.4 when rounded to the nearest tenth. What could the original number be? Give at least 3 possibilities.**

Friday – Mixed Challenge

Big Idea: Decimals and fractions connect through place value, and we can use multiple representations to make sense of them.

 **Mild: Write 0.5 as a fraction and round it to the nearest whole number.**

 **Medium: Write $\frac{3}{25}$ as a decimal. Is it recurring or non-recurring?**

 **Spicy: I'm thinking of a number between 6 and 7. Its hundredths digit is odd, and it rounds to 6.5 when rounded to the nearest tenth. What could my number be?**