

Module 3 Lesson 4

I will be able to compare and order rational numbers.

Decimal to a Fraction (simplify)

1. 0.6

$$\frac{6}{10} \div 2 = \frac{3}{5}$$

3. 0.375

$$\frac{375}{1000} \div 25 = \frac{15}{40} \div 5 = \frac{3}{8}$$

Steps:

1. Put the number over the place value of the last digit (say the number)

2. Simplify the fraction if needed.

2. 0.45

$$\frac{45}{100} \div 5 = \frac{9}{20}$$

4. 2.34

$$2 \frac{34}{100} \div 2 = 2 \frac{17}{50}$$

Fraction to a Decimal

1. $\frac{9}{12}$

Handwritten calculation for $\frac{9}{12}$ showing long division of 9.00 by 12, resulting in 0.75. The result .75 is circled in blue.

Steps:

1. Divide the numerator ^{top} by the denominator ^{bottom}
2. Round if the problem wants

2. $\frac{27}{75}$

Handwritten calculation for $\frac{27}{75}$ showing long division of 27.00 by 75, resulting in 0.36. The result .36 is circled in red.

3. $\frac{3}{8}$

8

Handwritten calculation for $\frac{3}{8}$ showing long division of 3.000 by 8, resulting in 0.375. The result .375 is circled in red.

Handwritten calculation for $\frac{4}{2}$ showing long division of 4.0 by 2, resulting in 2.0. The result 2.0 is circled in blue.

Handwritten calculation for $\frac{7}{2}$ showing multiplication by 50 to get $\frac{350}{100}$, which simplifies to 3.50. The result 3.50 is circled in blue.