

Convert Fractions and Mixed Numbers to Decimals

Warmup

1. Multiply

$$\frac{10}{11} \times \frac{2}{5}$$

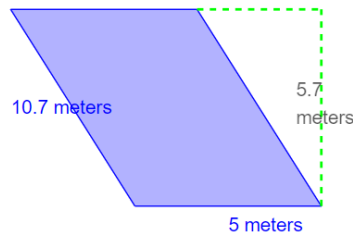
3. Calculate

$$6 \overline{)48}$$

2. Calculate the Area and Perimeter of the parallelogram.

Area= _____

Perimeter= _____

**4.** Compare

$$\frac{8}{12} \text{ — } 1$$

5. Compare

$$3\frac{1}{9} \text{ — } 1$$

6. Compare

$$\frac{15}{7} \text{ — } 1$$

- I. Convert Fractions to Decimal Numbers
- II. Convert Mixed Numbers to Decimal Numbers
- III. Repeating Decimals

Homeschool



Honor Roll

Learn ~ Persevere ~ Succeed

Pre-Algebra and Geometry I

Wendy Harper

www.HsHonorRoll.com

I. Convert Fractions to Decimal Numbers

To convert a fraction to a decimal number:

Divide numerator $\div$ denominator

$$\frac{1}{2} = 2 \overline{)1}$$

One Half dollar is \$0.50

Convert $\frac{3}{4}$ to a decimal

Convert each fraction to a decimal number. (Round to the nearest hundredth, if necessary)

Convert $\frac{3}{8}$ to a decimal

Convert $\frac{4}{7}$ to a decimal

7. Convert $\frac{7}{10}$ to a decimal

II. Convert Mixed Numbers to Decimal Numbers

Convert $4\frac{3}{4}$ to a decimal

Convert $15\frac{7}{10}$ to a decimal

8. Convert $3\frac{4}{5}$ to a decimal

To convert a Mixed Number to a decimal number:

Convert the fraction to a decimal,
then write the Whole Number to the
left of the decimal.

III. Repeating Decimals

Convert $\frac{1}{3}$ to a decimal

Repeating Decimals:

$$\frac{1}{3} = 1 \div 3 = 0.33333\ldots = 0.\overline{3}$$

“...” shows the pattern continues

$0.\overline{3}$ is another way to say 3 repeats

9. Convert $3\frac{5}{6}$ to a decimal





[illegible]