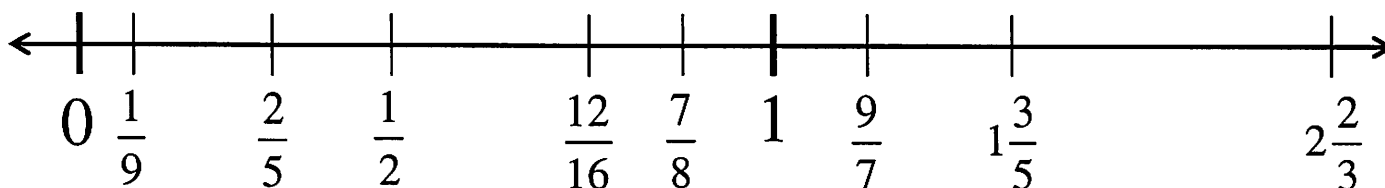


Multiplying Fractions and Whole Numbers

Proper Fractions _____

Improper Fractions _____

Can be turned into a...
 Mixed Number: $\frac{22}{5} = 4\frac{2}{5} \rightarrow$ Four and Two Fifths
 Four PLUS Two Fifths



With the exception of a few cases...

Anytime we have multiplied 2 numbers together, the product has been _____ than either of the two numbers.

However...

When you Multiply a Number Times a Proper Fraction

$$6 \cdot \frac{2}{3}$$

But...

When you Multiply a Number Times an Improper Fraction

$$6 \cdot \frac{3}{2}$$

Conclusion:

A number • a proper fraction is _____ than the original number.
(less than 1)

A number • an improper fraction or mixed number is _____ than the original number.
(greater than 1)

Multiplying Fractions and Whole Numbers

Proper Fractions $\frac{2}{3}$, $\frac{10}{19}$ Numerator smaller than Denominator

Improper Fractions $\frac{6}{5}$, $\frac{132}{7}$ Numerator bigger than Denominator

Can be turned into a...

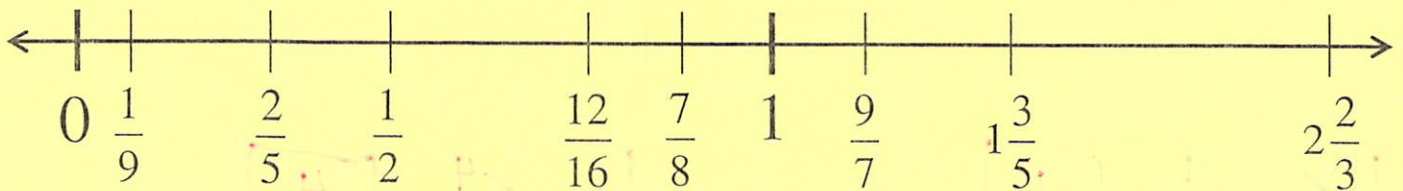
Mixed Number: $\frac{22}{5} = 4\frac{2}{5} \rightarrow$ Four and Two Fifths

$$4 + \frac{2}{5}$$

Four PLUS Two Fifths

Proper Fractions

Improper Fractions
Mixed Numbers



With the exception of a few cases...

Anytime we have multiplied 2 numbers together, the product has been bigger than either of the two numbers.

However...

When you Multiply a Number Times a Proper Fraction

$$6 \cdot \frac{2}{3}$$

$$\frac{6}{1} \cdot \frac{2}{3} = \frac{12}{3} = \boxed{4}$$

But...

When you Multiply a Number Times an Improper Fraction

$$6 \cdot \frac{3}{2}$$

$$\frac{6}{1} \cdot \frac{3}{2} = \frac{18}{2} = \boxed{9}$$

Conclusion:

A number \cdot a proper fraction is smaller than the original number.
(less than 1)

A number \cdot an improper fraction or mixed number is bigger than the original number.
(greater than 1)