Welcome to Fifth Grade Module 3! Newark City Schools is using the EngageNY curriculum, which is aligned with Ohio's New Learning Standards. In Module 3, students will review how to make equivalent fractions, and will add and subtract fractions and mixed numbers by finding a common denominator. Students will then solve word problems involving fractions, and tell if answers are reasonable or make sense.

## Important Words and Concepts

- Denominator: the bottom number of a fraction, fifths in 3 fifths
- Numerator: the top number of a fraction, 3 in 3 fifths
- Mixed number: a whole number with a fraction, greater than one whole, 2 2/3
- Unlike denominators (i.e. $1 / 8$ and $1 / 7$ )
- Like denominators (i.e. $1 / 8$ and $5 / 8$ )
- Equivalent fractions (i.e. $3 / 5=6 / 10$ )
- Benchmark fractions: $1 / 2$ is a benchmark fraction when comparing $1 / 3$ and $3 / 5$
- Making like units: finding a common denominator


## Multiplying to find common denominators

Students do much work in this module to find like or common denominators. To do this, students need to have a solid base in both multiplication and division basic facts. Continue to work with your child on having a strong fact recall.

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# Math Connections for Parents 

## Graphics and Strategies you may see...




Example of a rectangular fraction model

A number line can be used to show equivalent fractions.
$15 \frac{5}{6}+7 \frac{9}{10}=$ on the right shows two different methods to

$$
\begin{array}{rlrl} 
& 15 \frac{5}{6}+7 \frac{9}{10} & & 15 \frac{5}{6}+7 \frac{9}{10} \\
= & 22 \frac{5}{6}+\frac{9}{10} & = & 22 \frac{5}{6}+\frac{9}{10} \\
= & 22 \frac{50}{60}+\frac{54}{60} & =22 \frac{25}{30}+\frac{27}{30} \\
= & 22 \frac{104}{60} & =22 \frac{52}{30} \\
= & 22 \frac{60}{60}+\frac{44}{60} & = & 22 \frac{30}{30}+\frac{22}{30} \\
= & 23 \frac{11}{15} & = & 23 \frac{11}{15}
\end{array}
$$

## Sample Word Problem:

Gavin had 20 minutes to do a three-problem quiz. He spent $93 / 4$ minutes of question 1 and $34 / 5$ minutes on question 2 . How much time did he have left for question 3? Write the answer in minutes and seconds.


$$
\begin{aligned}
& 20-9 \frac{3}{4}-3 \frac{4}{5} & & 6 \frac{9}{20}=6 \frac{27}{60} \\
= & 19 \frac{20}{20}-9 \frac{55}{20}-3 \frac{16}{20} & & =6 \text { min } 27 \text { seconds } \\
= & 10 \frac{5}{20}-3 \frac{16}{20} & & \text { He had } 6 \text { minutes } \\
= & 9 \frac{25}{20}-3 \frac{16}{20} & & \text { quecords for fion } 3 . \\
= & 6 \frac{9}{20} & &
\end{aligned}
$$

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For more resources, please visit www.newarkcityschools.org $\rightarrow$ Parent Math Academy K-5

