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## LESSON

 Number Theory and Fractions
## 6 Review for Mastery: Mixed Numbers and Improper Fractions

A proper fraction is a fraction whose numerator is less than its denominator.
$\frac{2}{3}, \frac{1}{4}$, and $\frac{2}{7}$ are examples of proper fractions.
An improper fraction is a fraction whose numerator is greater than or equal to its denominator.
$\frac{3}{2}, \frac{8}{3}$, and $\frac{5}{5}$ are examples of improper fractions.
Some improper fractions can be written as mixed numbers.
To write $\frac{7}{4}$ as a mixed number, draw circles divided into $\frac{1}{4}$ sections.
Then shade in 7 of the $\frac{1}{4}$ sections.
There is one circle and $\frac{3}{4}$ of a circle shaded.


So, $\frac{7}{4}=1 \frac{3}{4}$.

Write each improper fraction as a mixed number.

1. $\frac{14}{3}$
2. $\frac{11}{2}$
3. $\frac{15}{4}$
4. $\frac{19}{6}$

| Mixed numbers can be written as improper fractions. |  |  |
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| To write $2 \frac{1}{3}$ as an improper fraction, draw 3 circles. Divide each |  |  |
| circle into $\frac{1}{3}$ sections. Next, shade in 2 whole circles and one $\frac{1}{3}$ |  |  |
| section of the last circle. |  |  |
| Then find the total number of $\frac{1}{3}$ sections that are shaded. |  |  |
| S. $3 \frac{1}{4}$ | 6. $5 \frac{2}{3}$ | 8. $1 \frac{5}{6}$ |

