## Date:

## Mixed Numbers \& Improper Fractions

Instructions: In each problem below, an improper fraction is represented by blocks beneath a number line. Use the number line to determine what the equivalent mixed number form would be.
(Notice that some number lines have different sub-divisions: thirds, fourths, fifths...)
1


2


3


4


5


6


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## Converting Mixed Numbers - The Long Way

Instructions: Re-write each mixed number as a sum of 'whole fractions' and a proper fraction. Then add those fractions up to get the improper fraction form of the mixed number.
$1 \begin{aligned} 1 \frac{3}{8} & =1+\frac{3}{8} \\ & =\frac{8}{8}+\frac{3}{8}=\left(\frac{11}{8}\right.\end{aligned}$

$$
=\frac{8}{8}+\frac{3}{8}=\frac{11}{8}
$$

$23 \frac{1}{5}=1+1+1+\frac{1}{5}$

$$
=\frac{5}{5}+\frac{5}{5}+\frac{5}{5}+\frac{1}{5}=\frac{16}{5}
$$

3 $2 \frac{3}{4}$
4 $2 \frac{1}{9}$
(5) $1 \frac{7}{10}$

6 $3 \frac{1}{3}$
(7) $2 \frac{6}{7}$

8 $2 \frac{3}{25}$
(9) $4 \frac{1}{2}$
$101 \frac{5}{12}$
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## Converting Mixed Numbers by Multiplying

Instructions: Convert each mixed number into an improper fraction using multiplication like you saw in the video. (Since multiplication is repeated addition, it's much quicker to multiply the whole number part of the mixed number by a'whole fraction' and then add the product you get to the fraction part of the mixed number.)
(1) $2 \frac{3}{4}=2 \times \frac{4}{4}+\frac{3}{4}$
$=\frac{8}{4}+\frac{3}{4}=\frac{11}{4}$
2 $5 \frac{1}{3}=5 \times \frac{3}{3}+\frac{1}{3}$
$=\frac{15}{3}+\frac{1}{3}=\frac{16}{3}$
(3) $5 \frac{1}{6}$
$44 \frac{3}{8}$
(5) $10 \frac{3}{4}$
(6) $9 \frac{1}{9}$
$72 \frac{4}{15}$
8 $11 \frac{3}{7}$

- $1 \frac{7}{12}$

10 $25 \frac{1}{4}$

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## Converting Improper Fractions by Dividing

Instructions: You can convert an improper fraction into a mixed number just by dividing the top number (numerator) by the bottom number (denominator). The answer to the division is the whole number part of the mixed number and the remainder of the division tells you what fraction is left over.

1


3 $\frac{19}{5}$
(4) $\frac{11}{4}$

5 $\frac{31}{7}$

- $\frac{42}{8}$
$7 \quad \frac{50}{9}$
$8 \frac{22}{7}$

9 $\frac{17}{3}$
$10 \frac{84}{9}$
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## Converting Mixed Numbers and Improper Fractions - Set 1

Instructions: Use the procedures you learned to convert each mixed number into an improper fraction, and each improper fraction into a mixed number.
1 $4 \frac{1}{6}=4 \times \frac{6}{6}+\frac{1}{6}$
$=\frac{24}{6}+\frac{1}{6}=\frac{25}{6}$
$2 \frac{36}{5}=7 \frac{1}{5}$


3 $3 \frac{5}{8}$
4. $\frac{20}{3}$
(5) $7 \frac{1}{2}$

6 $\frac{23}{10}$
$7 \quad 9 \frac{2}{3}$
$8 \frac{29}{6}$
(9) $5 \frac{1}{12}$
$10 \frac{34}{8}$
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## Converting Mixed Numbers and Improper Fractions - Set 2

Instructions: Use the procedures you learned to convert each mixed number into an improper fraction, and each improper fraction into a mixed number.
$15 \frac{1}{4}$
$2 \frac{13}{5}$
3. $2 \frac{4}{15}$
$4 \frac{75}{7}$

5 $8 \frac{1}{8}$
6 $\frac{16}{5}$
$712 \frac{2}{3}$
$8 \frac{30}{4}$
(9) $6 \frac{2}{5}$
$10 \frac{100}{11}$

