

Date:

MN 1

# **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...) <u>3</u> 4 1 Mixed 3 Number 4 0 2 Improper 7 Fraction 4 1 1 2 4  $2\frac{1}{4}$ Mixed Number Ó 3 9 Improper Fraction 4 1 3 3  $1\frac{1}{3}$ Mixed Number Ó 2 3 4 Improper 3 Fraction <u>3</u> 5 1 1 4  $2\frac{3}{5}$ Mixed Ó 3 Number 2 13 Improper Fraction 5 1 1 1 1 5 3  $3\frac{1}{3}$ Mixed 0 Number 2 4 10 Improper Fraction 3 2 4 1 1 1 6 2 4 Mixed or 3 Number Ŏ 4 Ž Improper 14 Fraction 4

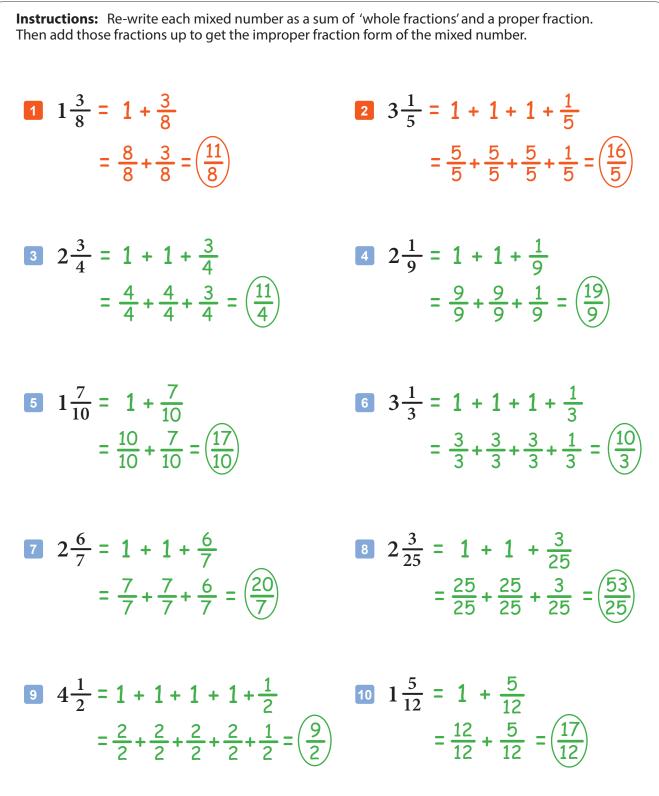
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**MN** 2

# **Converting Mixed Numbers - The Long Way**





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# **Converting Mixed Numbers by Multiplying**

#### MN 3

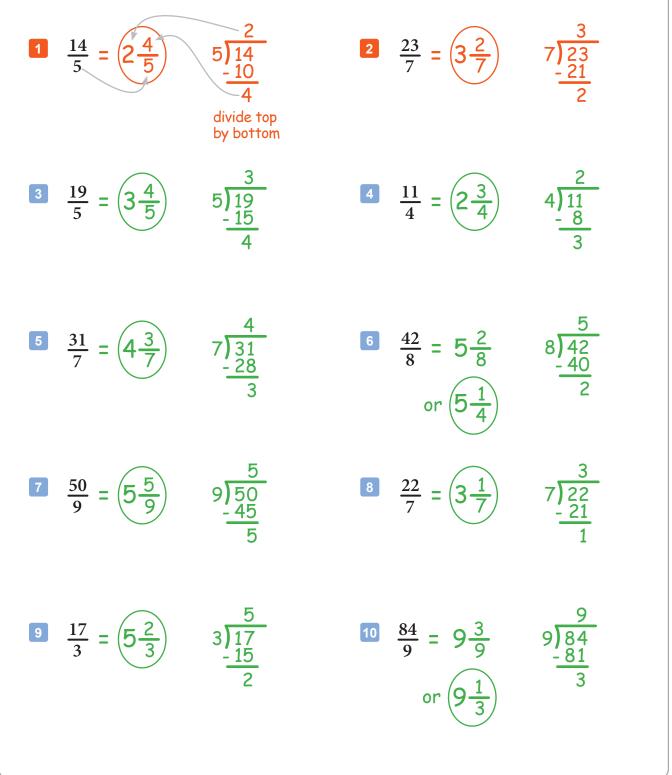
# Instructions: Convert each mixed number into an improper fraction using multiplication like you saw in the video. (Since multiplication is repeated addition, it's much quicker to multiply the whole number part of the mixed number by a 'whole fraction' and then add the product you get to the fraction part of the mixed number.) 1 $2\frac{3}{4} = 2 \times \frac{4}{4} + \frac{3}{4}$ 2 $5\frac{1}{3} = 5 \times \frac{3}{3} + \frac{1}{3}$ $=\frac{8}{4}+\frac{3}{4}=\left(\frac{11}{4}\right)$ $=\frac{15}{3}+\frac{1}{3}=\left(\frac{16}{3}\right)$ 3 $5\frac{1}{6} = 5 \times \frac{6}{6} + \frac{1}{6}$ 4 $\frac{3}{8} = 4 \times \frac{8}{8} + \frac{3}{8}$ $=\frac{32}{8}+\frac{3}{8}=\left(\frac{35}{8}\right)$ $=\frac{30}{6}+\frac{1}{6}=\left(\frac{31}{6}\right)$ 5 $10\frac{3}{4} = 10 \times \frac{4}{4} + \frac{3}{4}$ $\frac{1}{9} = 9 \times \frac{9}{9} + \frac{1}{9}$ $=\frac{40}{4}+\frac{3}{4}=\left(\frac{43}{4}\right)$ $=\frac{81}{9}+\frac{1}{9}=\left(\frac{82}{9}\right)$ **7** $2\frac{4}{15} = 2 \times \frac{15}{15} + \frac{4}{15}$ **1** $11\frac{3}{7} = 11 \times \frac{7}{7} + \frac{3}{7}$ $=\frac{77}{7}+\frac{3}{7}=\left(\frac{80}{7}\right)$ $=\frac{30}{15}+\frac{4}{15}=\left(\frac{34}{15}\right)$ 10 $25\frac{1}{4} = 25 \times \frac{4}{4} + \frac{1}{4}$ **1** $\frac{7}{12}$ = 1 × $\frac{12}{12}$ + $\frac{7}{12}$ $=\frac{100}{4}+\frac{1}{4}=\left(\frac{101}{4}\right)$ $=\frac{12}{12}+\frac{7}{12}=\left(\frac{19}{12}\right)$



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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.



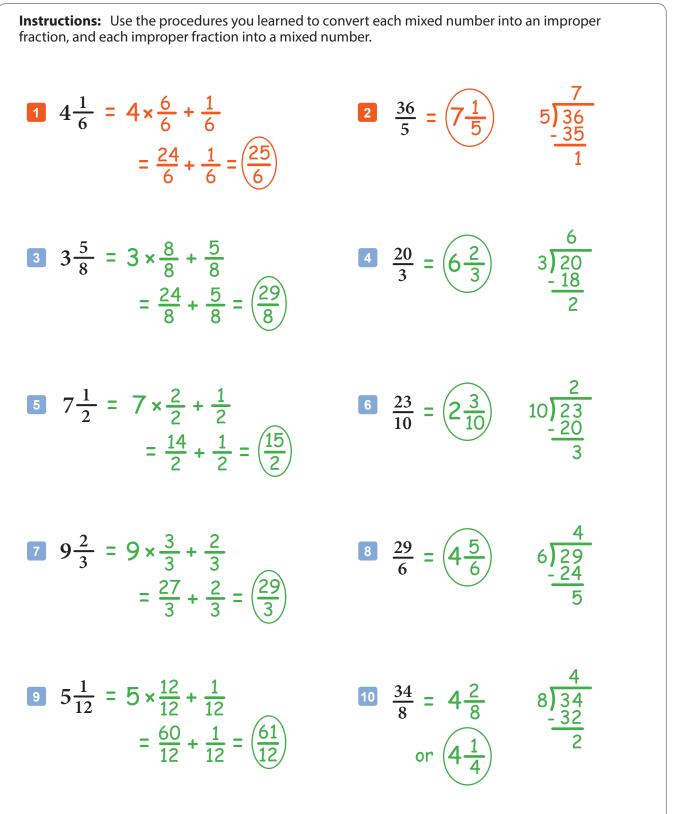
MN 4

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MN 5

## **Converting Mixed Numbers and Improper Fractions - Set 1**

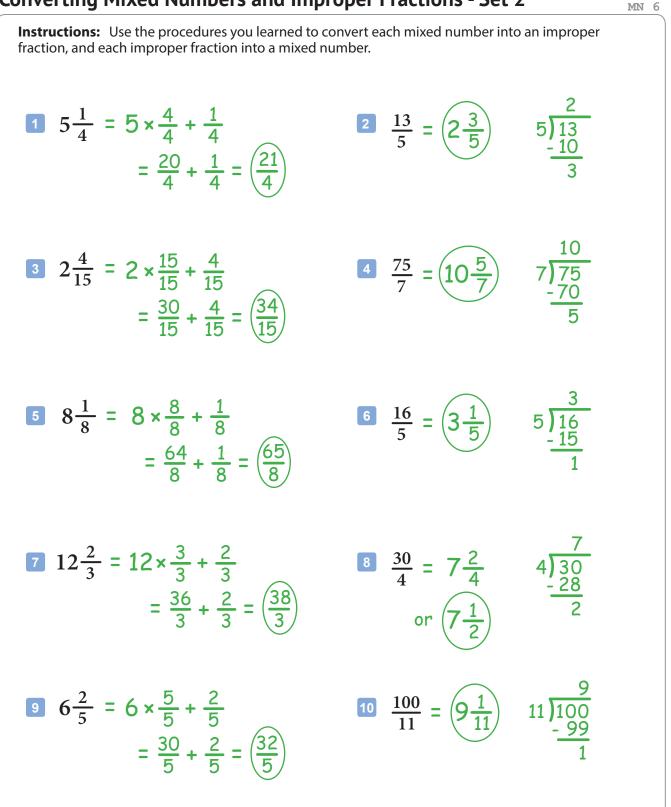


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## **Converting Mixed Numbers and Improper Fractions - Set 2**



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