

Date:

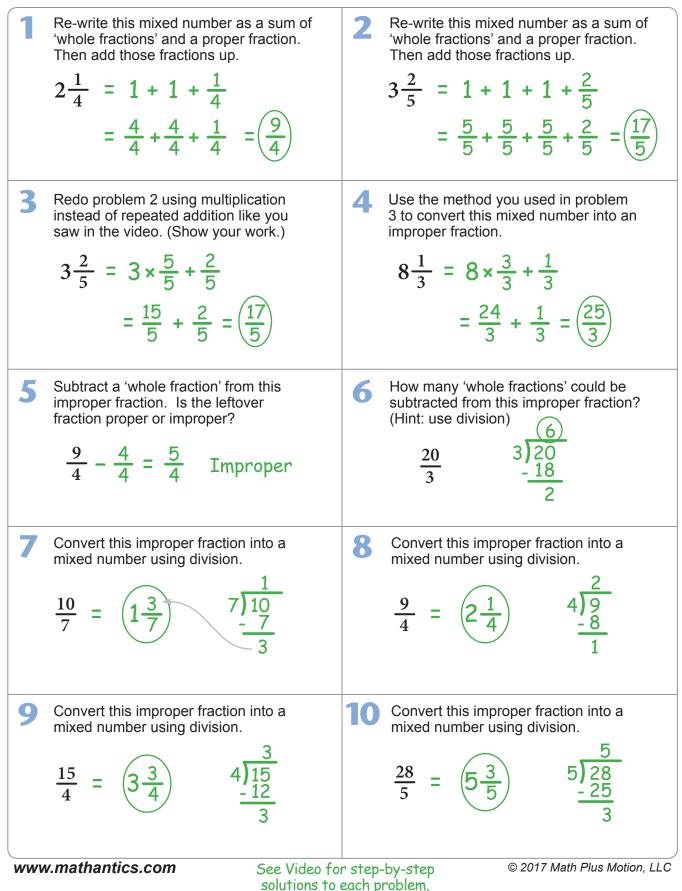
## Mixed Numbers

1	Re-write this mixed number as a sum of 'whole fractions' and a proper fraction. Then add those fractions up. $2\frac{1}{4}$	Re-write this mixed r whole fractions' and Then add those fract $3\frac{2}{5}$	a proper fraction.
3	Redo problem 2 using multiplication instead of repeated addition like you saw in the video. (Show your work.) $3\frac{2}{5}$	Use the method you 3 to convert this mixed improper fraction. $8\frac{1}{3}$	
5	Subtract a 'whole fraction' from this improper fraction. Is the leftover fraction proper or improper? $\frac{9}{4}$	How many 'whole fra subtracted from this (Hint: use division) $\frac{20}{3}$	
7	Convert this improper fraction into a mixed number using division. $\frac{10}{7}$	Convert this improper mixed number using $\frac{9}{4}$	
9	Convert this improper fraction into a mixed number using division. $\frac{15}{4}$	Convert this improper mixed number using $\frac{28}{5}$	

math Antics Exercises Name:

Date:

## **Mixed Numbers**



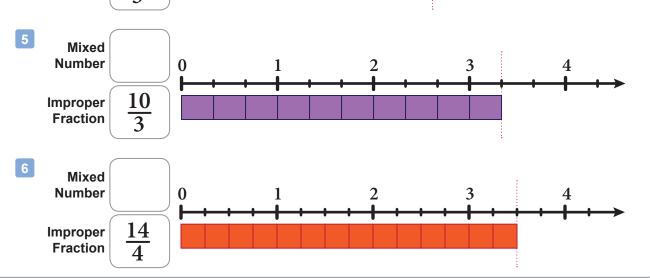


Date:

F-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...) 3 4 1 Mixed 3 Number 4 0 2 Improper 7 Fraction 4 2 Mixed Number 0 1 2 3 9 Improper Fraction 4 3 Mixed Number 0 2 3  $\frac{4}{3}$ Improper Fraction 4 Mixed 0 2 Number 3 1 13 Improper Fraction 5



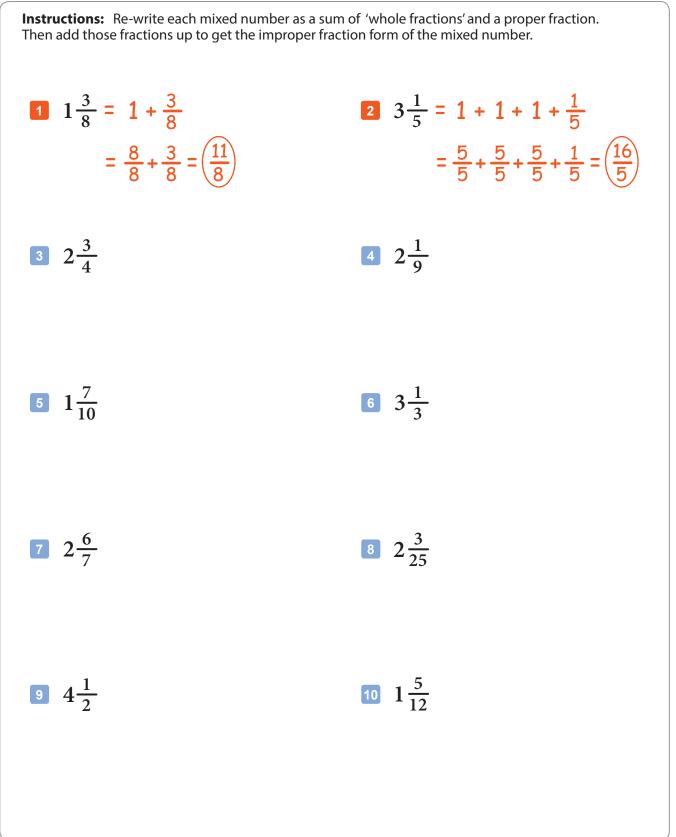
<sup>© 2017</sup> Math Plus Motion, LLC



Date:

F-MN 2

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





Date:

### **Converting Mixed Numbers by Multiplying**

#### F-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 $5\frac{1}{3} = 5 \times \frac{3}{3} + \frac{1}{3}$ $=\frac{8}{4}+\frac{3}{4}=\left(\frac{11}{4}\right)$ $=\frac{15}{3}+\frac{1}{3}=\left(\frac{16}{3}\right)$ $3 5\frac{1}{6}$ $4 \frac{3}{8}$ 5 $10\frac{3}{4}$ $6 9\frac{1}{9}$ 8 $11\frac{3}{7}$ **7** $2\frac{4}{15}$ 9 $1\frac{7}{12}$ 10 $25\frac{1}{4}$



Date:

F-MN 4

### **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. 2  $\frac{23}{7}$ 14 1 5 14 10 divide top by bottom <u>19</u> 5  $\frac{11}{4}$ 3  $\frac{31}{7}$ 42 5 6 8 <u>50</u>  $\frac{22}{7}$ 8 7 9  $\frac{17}{3}$  $\frac{84}{9}$ 9 10





Date:

F-MN 5

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

Instructions: Use the procedures you've learned to convert each mixed number into an improper fraction, and each improper fraction into a mixed number.  $1 \quad 4\frac{1}{6} = 4 \times \frac{6}{6} + \frac{1}{6}$  $\frac{36}{5}$  = 2  $=\frac{24}{6}+\frac{1}{6}=\frac{25}{6}$  $3 3\frac{5}{8}$  $\frac{20}{3}$ **5**  $7\frac{1}{2}$  $\frac{23}{10}$ 6  $7 9\frac{2}{3}$  $\frac{29}{6}$ 8 9  $5\frac{1}{12}$  $\frac{34}{8}$ 10



Date:



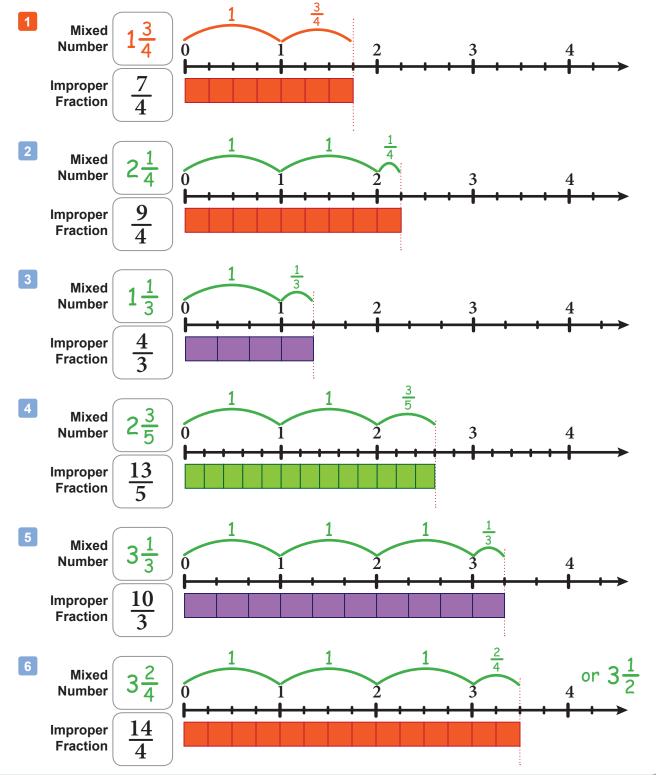


Date:

F-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...)



© 2017 Math Plus Motion, LLC

math Antics Worksheets

Name:

Date:

F-MN 2

#### **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  $1\frac{3}{8} = 1 + \frac{3}{8}$ **2**  $3\frac{1}{5} = 1 + 1 + 1 + \frac{1}{5}$  $=\frac{8}{8}+\frac{3}{8}=\left(\frac{11}{8}\right)$  $=\frac{5}{5}+\frac{5}{5}+\frac{5}{5}+\frac{1}{5}=\left(\frac{16}{5}\right)$ 3  $2\frac{3}{4} = 1 + 1 + \frac{3}{4}$  $4 2\frac{1}{9} = 1 + 1 + \frac{1}{9}$  $=\frac{9}{9}+\frac{9}{9}+\frac{1}{9}=\left(\frac{19}{9}\right)$  $=\frac{4}{4}+\frac{4}{4}+\frac{3}{4}=\left(\frac{11}{4}\right)$  $3\frac{1}{3} = 1 + 1 + 1 + \frac{1}{3}$ **5**  $1\frac{7}{10} = 1 + \frac{7}{10}$  $=\frac{10}{10}+\frac{7}{10}=\left(\frac{17}{10}\right)$  $=\frac{3}{3}+\frac{3}{3}+\frac{3}{3}+\frac{1}{3}=(\frac{10}{3})$ **7**  $2\frac{6}{7} = 1 + 1 + \frac{6}{7}$ **8**  $2\frac{3}{25} = 1 + 1 + \frac{3}{25}$  $=\frac{7}{7}+\frac{7}{7}+\frac{6}{7}=\left(\frac{20}{7}\right)$  $= \frac{25}{25} + \frac{25}{25} + \frac{3}{25} = \left(\frac{53}{25}\right)$ 10  $1\frac{5}{12} = 1 + \frac{5}{12}$  $9 \quad 4\frac{1}{2} = 1 + 1 + 1 + 1 + \frac{1}{2}$  $=\frac{2}{2}+\frac{2}{2}+\frac{2}{2}+\frac{2}{2}+\frac{2}{2}+\frac{1}{2}=\left(\frac{9}{2}\right)$  $=\frac{12}{12}+\frac{5}{12}=\left(\frac{17}{12}\right)$ 





Date:

#### **Converting Mixed Numbers by Multiplying**

#### F-MN 3

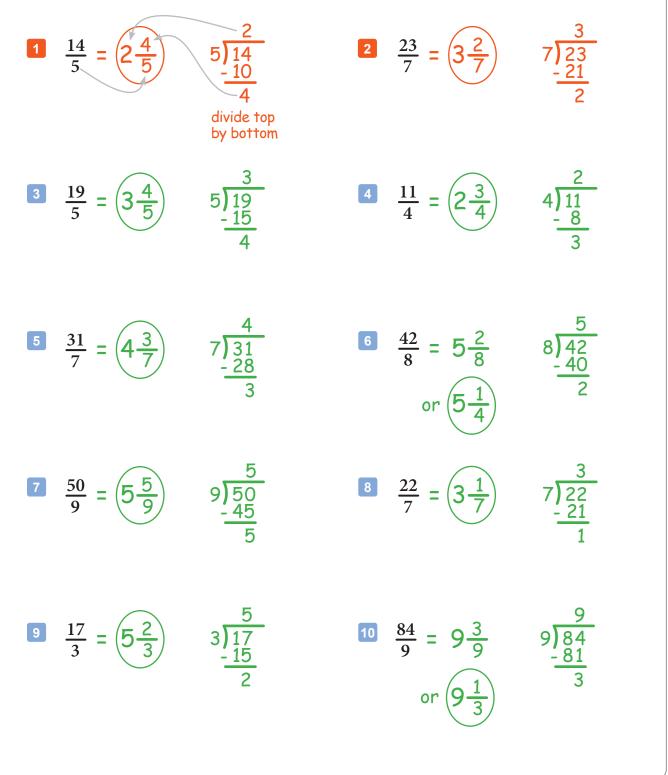
# Instructions: Convert each mixed number into an improper fraction using multiplication like you saw in the video. (Since multiplication is repeated addition, it's much quicker to multiply the whole number part of the mixed number by a 'whole fraction' and then add the product you get to the fraction 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 × $\frac{12}{12}$ + $\frac{7}{12}$ $=\frac{100}{4}+\frac{1}{4}=\left(\frac{101}{4}\right)$ $=\frac{12}{12}+\frac{7}{12}=\left(\frac{19}{12}\right)$



Date:

#### **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.





Math Antics<sup>®</sup> Worksheets Name:

Date:

F-MN 5

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

**Instructions:** Use the procedures you've learned to convert each mixed number into an improper fraction, and each improper fraction into a mixed number. 1  $4\frac{1}{6} = 4 \times \frac{6}{6} + \frac{1}{6}$  $\frac{36}{5}$  $=\frac{24}{6}+\frac{1}{6}=\left(\frac{25}{6}\right)$ 3  $3\frac{5}{8} = 3 \times \frac{8}{8} + \frac{5}{8}$ 3)20 - 18  $=\frac{24}{8}+\frac{5}{8}=\left(\frac{29}{8}\right)$ **5**  $7\frac{1}{2} = 7 \times \frac{2}{2} + \frac{1}{2}$ 10)23  $=\frac{14}{2}+\frac{1}{2}=\left(\frac{15}{2}\right)$  $9\frac{2}{3} = 9 \times \frac{3}{3} + \frac{2}{3}$ 29 24  $=\frac{27}{3}+\frac{2}{3}=\left(\frac{29}{3}\right)$ **9**  $5\frac{1}{12} = 5 \times \frac{12}{12} + \frac{1}{12}$  $\frac{34}{8} = 4\frac{2}{8}$  $=\frac{60}{12}+\frac{1}{12}=\left(\frac{61}{12}\right)$ or

© 2017 Math Plus Motion, LLC

math Antics Worksheets

Name:

Date:

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

F-MN 6

