math Antics
Exercises

Name:

Date:

Mixed Numbers

1 Re-write this mixed number as a sum of 'whole fractions' and a proper fraction. Then add those fractions up.

$2\frac{1}{4} = 1 + 1 + \frac{1}{4}$

$= \frac{4}{4} + \frac{4}{4} + \frac{1}{4} = \frac{9}{4}$

2 Re-write this mixed number as a sum of 'whole fractions' and a proper fraction. Then add those fractions up.

$3\frac{2}{5} = 1 + 1 + 1 + \frac{2}{5}$

$= \frac{5}{5} + \frac{5}{5} + \frac{5}{5} + \frac{2}{5} = \frac{17}{5}$

3 Redo problem 2 using multiplication instead of repeated addition like you saw in the video. (Show your work.)

$3\frac{2}{5} = 3 \times \frac{5}{5} + \frac{2}{5}$

$= \frac{15}{5} + \frac{2}{5} = \frac{17}{5}$

4 Use the method you used in problem 3 to convert this mixed number into an improper fraction.

$8\frac{1}{3} = 8 \times \frac{3}{3} + \frac{1}{3}$

$= \frac{24}{3} + \frac{1}{3} = \frac{25}{3}$

5 Subtract a 'whole fraction' from this improper fraction. Is the leftover fraction proper or improper?

$\frac{9}{4} - \frac{4}{4} = \frac{5}{4}$ Improper

6 How many 'whole fractions' could be subtracted from this improper fraction? (Hint: use division)

$\frac{20}{3}$

$3\overline{)20}$ → 6, -18, remainder 2

7 Convert this improper fraction into a mixed number using division.

$\frac{10}{7} = 1\frac{3}{7}$

$7\overline{)10}$ → 1, -7, remainder 3

8 Convert this improper fraction into a mixed number using division.

$\frac{9}{4} = 2\frac{1}{4}$

$4\overline{)9}$ → 2, -8, remainder 1

9 Convert this improper fraction into a mixed number using division.

$\frac{15}{4} = 3\frac{3}{4}$

$4\overline{)15}$ → 3, -12, remainder 3

10 Convert this improper fraction into a mixed number using division.

$\frac{28}{5} = 5\frac{3}{5}$

$5\overline{)28}$ → 5, -25, remainder 3

See Video for step-by-step solutions to each problem.