

Week 1 - Wednesday: Mixed Numbers to Improper Fractions (Key)

Name: _____ Date: _____

The C method: mixed number -> improper fraction

- 1) Start at the BOTTOM. 2) Multiply the denominator by the whole number. 3) ADD the numerator.
- 4) Keep the SAME denominator. Check: divide to change it back to a mixed number!

Example: $3\frac{2}{5}$ $5 \times 3 = 15$, $15 + 2 = 17$ -> $\frac{17}{5}$

Part A - The video's examples (show the C method)

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

Answer: $5 \times 3 = 15$, $+2 = 17$ -> $17/5$

2) $7\frac{1}{2} =$

Answer: $2 \times 7 = 14$, $+1 = 15$ -> $15/2$

3) $2\frac{7}{8} =$

Answer: $8 \times 2 = 16$, $+7 = 23$ -> $23/8$

4) $10\frac{5}{6} =$

Answer: $6 \times 10 = 60$, $+5 = 65$ -> $65/6$

Part B - Change to an improper fraction

5) $1\frac{3}{4} =$

Answer: $\frac{7}{4}$

6) $4\frac{1}{3} =$

Answer: $\frac{13}{3}$

7) $5\frac{2}{3} =$

Answer: $\frac{17}{3}$

8) $6\frac{3}{8} =$

Answer: $\frac{51}{8}$

9) $2\frac{5}{9} =$

Answer: $\frac{23}{9}$

10) $8\frac{1}{4} =$

Answer: $\frac{33}{4}$

Part B (continued)

11) $9\frac{2}{7} =$

Answer: $\frac{65}{7}$

12) $3\frac{5}{12} =$

Answer: $\frac{41}{12}$

13) $11\frac{1}{2} =$

Answer: $\frac{23}{2}$

14) $12\frac{3}{5} =$

Answer: $\frac{63}{5}$

Part C - Convert, then check

Convert to an improper fraction, then CHECK by dividing back to a mixed number.

15) $4\frac{3}{5} =$

Check: $23 \div 5 = 4 \text{ R}3 \rightarrow 4\frac{3}{5}$

Answer: $23/5$

16) $6\frac{5}{6} =$

Check: $41 \div 6 = 6 \text{ R}5 \rightarrow 6\frac{5}{6}$

Answer: $41/6$

17) $2\frac{9}{10} =$

Check: $29 \div 10 = 2 \text{ R}9 \rightarrow 2\frac{9}{10}$

Answer: $29/10$

18) $7\frac{4}{9} =$

Check: $67 \div 9 = 7 \text{ R}4 \rightarrow 7\frac{4}{9}$

Answer: $67/9$

Part D - Word problems

- 19) Mom has $3\frac{1}{4}$ pizzas. Each pizza is cut into fourths.
How many slices are there in all?

Answer: $4 \times 3 = 12$, $+1 = 13 \rightarrow 13/4$, so 13 slices

- 20) A recipe uses $2\frac{2}{3}$ cups of flour. Bensen scoops with a $\frac{1}{3}$ cup.
How many scoops does he need?

Answer: $3 \times 2 = 6$, $+2 = 8 \rightarrow 8/3$, so 8 scoops

Explain: Tell how the C method works, in your own words.

Start at the bottom: denominator $\times$ whole, add the numerator, keep the same denominator.