Fractions 4

Adding and Subtracting

Before adding/subtracting, what fraction part must be the same? denominator

What rule do we use for adding and subtracting fractions?
Rule of four.

Directions: Draw arrows and write new fractions before adding or subtracting.

1. $\frac{16}{24}\ \frac{2}{3} \overset{+}{\leftrightarrow} \frac{1}{8}\ \frac{3}{24} = \frac{19}{24}$

2. $\frac{12}{20}\ \frac{3}{5} \overset{-}{\leftrightarrow} \frac{1}{4}\ \frac{5}{20} = \frac{7}{20}$

improper, just leave for now.

3. $\frac{21}{35}\ \frac{3}{5} \overset{+}{\times} \frac{4}{7}\ \frac{20}{35} = \frac{41}{35}$

4. $\frac{40}{48}\ \frac{5}{6} \overset{-}{\leftrightarrow} \frac{1}{8}\ \frac{6}{48} = \frac{34}{48} \div 2\ \ \frac{17}{24}$

5. $\frac{36}{84}\ \frac{3}{7} \overset{+}{\leftrightarrow} \frac{1}{12}\ \frac{7}{84} = \frac{43}{84}$

6. $\frac{35}{56}\ \frac{5}{8} \overset{-}{\times} \frac{2}{7}\ \frac{16}{56} = \frac{19}{56}$

7. $\frac{27}{33}\ \frac{9}{11} \overset{-}{\times} \frac{2}{3}\ \frac{22}{33} = \frac{5}{33}$

8. $\frac{44}{48}\ \frac{11}{12} \overset{-}{\leftrightarrow} \frac{3}{4}\ \frac{36}{48} = \frac{8}{48} \div 8 = \frac{1}{6}$

9. $\frac{48}{104}\ \frac{6}{13} \overset{+}{\leftrightarrow} \frac{3}{8}\ \frac{39}{104} = \frac{87}{104}$

10. $\frac{35}{50}\ \frac{7}{10} \overset{-}{\leftrightarrow} \frac{3}{5}\ \frac{30}{50} = \frac{5}{50} \div 5 = \frac{1}{10}$

11. $\frac{8}{36}\ \frac{2}{9} \overset{+}{\leftrightarrow} \frac{3}{4}\ \frac{27}{36} = \frac{35}{36}$

12. $\frac{15}{35}\ \frac{3}{7} - \frac{2}{5}\ \frac{14}{35} = \frac{1}{35}$

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Fractions

Homework

Adding and Subtracting

Before adding/subtracting, what fraction part must be the same? denominator

What rule do we use for adding and subtracting fractions?
Rule of four.

Directions: Draw arrows and write new fractions before adding or subtracting.

1. $\frac{66}{77}\ \frac{6}{7} + \frac{1}{11}\ \frac{7}{77} = \frac{73}{77}$

2. $\frac{10}{15}\ \frac{2}{3} + \frac{1}{5}\ \frac{3}{15} = \frac{13}{15}$

3. $\frac{12}{30}\ \frac{2}{5} + \frac{2}{6}\ \frac{10}{30} = \frac{22}{30} = \frac{22 \div 2}{30 \div 2} = \frac{11}{15}$

4. $\frac{16}{56}\ \frac{2}{7} + \frac{3}{8}\ \frac{21}{56} = \frac{37}{56}$

5. $\frac{40}{45}\ \frac{8}{9} - \frac{2}{5}\ \frac{18}{45} = \frac{22}{45}$

6. $\frac{44}{52}\ \frac{11}{13} - \frac{3}{4}\ \frac{39}{52} = \frac{5}{52}$

7. $\frac{1}{10} + \frac{3}{10} = \frac{4}{10} = \frac{4 \div 2}{10 \div 2} = \frac{2}{5}$

8. $\frac{6}{8} - \frac{5}{8} = \frac{1}{8}$

9. $\frac{35}{84}\ \frac{5}{12} + \frac{2}{7}\ \frac{24}{84} = \frac{59}{84}$

10. $\frac{14}{21}\ \frac{2}{3} - \frac{1}{7}\ \frac{3}{21} = \frac{11}{21}$

11. $\frac{44}{66}\ \frac{4}{6} + \frac{2}{11}\ \frac{12}{66} = \frac{56}{66} = \frac{56 \div 2}{66 \div 2} = \frac{28}{33}$

12. $\frac{42}{54}\ \frac{7}{9} - \frac{1}{6}\ \frac{9}{54} = \frac{33}{54}$

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