

1. For help on these problems, draw the fractions as pieces of pie, and you will be able to see which are greater and which are smaller.

(a)  $\frac{7}{11}, \frac{5}{11}, \frac{3}{11}, \frac{2}{11}$

(b)  $\frac{2}{3}, \frac{2}{5}, \frac{2}{7}, \frac{2}{11}$

(c)  $\frac{4}{5}, \frac{3}{4}, \frac{2}{3}, \frac{1}{2}$

(d)  $\frac{11}{12}, \frac{3}{4}, \frac{2}{10}, \frac{1}{8}$

2. Don't forget to reduce!

(a)  $\frac{1}{3} + \frac{2}{3} = \frac{3}{3} = \boxed{1}$

(b)  $\frac{4}{9} + \frac{2}{9} = \frac{6}{9} = \boxed{\frac{2}{3}}$

(c)  $\frac{6}{7}$

(d)  $\frac{2}{11} + \frac{6}{11} + \frac{3}{11} = \frac{11}{11} = \boxed{1}$

3. (a)  $\frac{2}{7}$

(b)  $\frac{1}{3}$

(c)  $\frac{1}{5}$

(d)  $\frac{5}{12}$

4. (a)  $\frac{1}{6} + \frac{1}{3} = \frac{1}{6} + \frac{2}{6} = \frac{3}{6} = \boxed{\frac{1}{2}}$

(b)  $\frac{2}{3}$

(c)  $\frac{1}{1}$

(d)  $\frac{5}{6}$

5. (a)  $\frac{1}{8}$

(b)  $\frac{2}{2} \times \frac{4}{7} - \frac{3}{14} = \frac{8}{14} - \frac{3}{14} = \boxed{\frac{5}{14}}$



Math Olympiad and Problem Solving Program

F120 - Intermediate Problem Solving

Problem Set 7.2 - Fraction Additions and Subtractions

Name:

Date:

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(c)  $\frac{11}{12} - \frac{3}{12} - \frac{5}{12} = \frac{11 - 3 - 5}{12} = \frac{3}{12} = \boxed{\frac{1}{4}}$

(d)  $\boxed{\frac{1}{2}}$