

Pre-Algebra
HW 4 Fractions II

1. Calculate the following:

(a) $\frac{5}{13} + \frac{7}{13}$

(b) $\frac{1}{4} + \frac{3}{4}$

(c) $\frac{4}{5} - \frac{1}{5}$

(d) $\frac{1}{16} + \frac{5}{16}$

(e) $\frac{2}{7} - \frac{5}{7}$

(f) $\frac{17}{36} - \frac{1}{36}$

2. Calculate the following:

(a) $\frac{1}{6} + \frac{4}{15}$

(b) $\frac{2}{17} + \frac{4}{5}$

(c) $\frac{12}{13} - \frac{1}{5}$

(d) $\frac{1}{18} + \frac{7}{30}$

(e) $\frac{3}{15} - \frac{3}{5}$

(f) $\frac{11}{17} - \frac{11}{19}$

3. Calculate the following:

(a) $1\frac{1}{5} + \frac{1}{6}$

(b) $3\frac{5}{7} - 1\frac{5}{7}$

(c) $7\frac{3}{8} + 1\frac{1}{2}$

(d) $3\frac{1}{7} - 4\frac{3}{4}$

(e) $4\frac{7}{8} - 3\frac{5}{8}$

(f) $8\frac{11}{12} - 1\frac{1}{2}$

4. You are at a party where there are 7 people in total. There is also a cake which has been divided into 9 pieces. If you and your friend both take 2 pieces each, what fraction of the cake is left?

5. Solve the following equations:

(a) $\frac{13}{15} + x = \frac{1}{15}$

(b) $\frac{1}{2} + y = \frac{3}{4}$

(c) $\frac{7}{8} - b = \frac{1}{5}$

(d) $1\frac{1}{3} + x = 2\frac{1}{2}$

(e) $3\frac{2}{5} + x = \frac{1}{7}$

(f) $z - \frac{5}{22} = \frac{1}{2}$

(g) $2\frac{4}{7} + x = \frac{1}{3}$

(h) $1\frac{1}{5} - x = 3\frac{3}{5}$

(i) $\frac{17}{21} + a = 2$

(j) $\frac{2}{3} - x = \frac{1}{5}$

(k) $x - 5\frac{3}{5} = 1\frac{1}{2}$

(l) $x - 4\frac{1}{2} = 1\frac{5}{6}$

6. Bob is at a party and has eaten a slice of cake. His friend Alice doesn't like the cake so she gives Bob her slice too. If Alice's slice was $\frac{1}{8}$ of the cake and Bob has now in total had $\frac{3}{8}$ of the cake - how big was Bob's initial slice?
7. Alice and Bob are buying a car together. If Alice is paying for $\frac{3}{5}$ of the total price of the car, how big a fraction of the total price does Bob have to pay?
8. Joe and I cooked omelettes for dinner. We bought a box of 2 dozen eggs. We used $\frac{1}{8}$ of the eggs for Jim's omelette, $\frac{1}{6}$ for Joe's, and $\frac{1}{3}$ for mine. How many eggs did we have left?