1) a)
$$\frac{1}{2} + \frac{3}{4} + \frac{3}{8} = \frac{13}{8} = 1\frac{5}{8}$$



b)
$$\frac{11}{8} = 1\frac{3}{8}$$

c)
$$\frac{21}{12} = 1\frac{9}{12}$$

d)
$$\frac{23}{16} = 1\frac{7}{16}$$

2)
$$\frac{\frac{2}{3} + \frac{5}{12} + \frac{5}{6}}{\frac{1}{2} + \frac{5}{12} + \frac{3}{4}}$$

$$1\frac{\frac{11}{12}}{\frac{1}{12}}$$

$$1\frac{\frac{11}{12}}{\frac{1}{12}}$$

1) a) True



b) False
$$\frac{1}{2} + \frac{3}{7} + \frac{4}{14} = 1\frac{3}{14}$$

c) False
$$\frac{1}{3} + \frac{2}{5} + \frac{7}{15} = 1\frac{3}{15}$$

d) True

In calculation b, the numerators and denominators have been added as separate calculations. In calculation c, the improper fraction has not been converted correctly.

2)
$$\frac{1}{2} + \frac{2}{3} + \frac{4}{6} = 1\frac{5}{6}$$

$$\frac{3}{4} + \frac{1}{3} + \frac{4}{12} = 1\frac{5}{12}$$

1) Possible answers include the following:

$$\frac{1}{2} + \frac{5}{6} + \frac{4}{12} = 1\frac{8}{12}$$

$$\frac{1}{9} + \frac{9}{6} + \frac{9}{12} = 1\frac{3}{12}$$

$$\frac{1}{3} + \frac{5}{6} + \frac{4}{12} = 1\frac{6}{12}$$

2) There are 17 solutions. Look for systematic recordings from children.

$$\frac{1}{2} + \frac{1}{4} + \frac{3}{8} = 1\frac{1}{8}$$

$$\frac{1}{2} + \frac{1}{4} + \frac{4}{8} = 1\frac{2}{8}$$

$$\frac{1}{2} + \frac{1}{4} + \frac{5}{8} = 1\frac{3}{8}$$

$$\frac{1}{2} + \frac{1}{4} + \frac{6}{8} = 1\frac{4}{8}$$

$$\frac{1}{2} + \frac{1}{4} + \frac{7}{8} = 1\frac{5}{8}$$

$$\frac{1}{2} + \frac{2}{4} + \frac{1}{8} = 1\frac{1}{8}$$

$$\frac{1}{2} + \frac{2}{4} + \frac{2}{8} = 1\frac{2}{8}$$

$$\frac{1}{2} + \frac{2}{4} + \frac{3}{8} = 1\frac{4}{8}$$

$$\frac{1}{2} + \frac{2}{4} + \frac{4}{8} = 1\frac{5}{8}$$

$$\frac{1}{2} + \frac{2}{4} + \frac{5}{8} = 1\frac{6}{8}$$

$$\frac{1}{2} + \frac{2}{4} + \frac{2}{8} = 1\frac{7}{8}$$

$$\frac{1}{2} + \frac{3}{4} + \frac{1}{8} = 1\frac{3}{8}$$

$$\frac{1}{2} + \frac{3}{4} + \frac{2}{8} = 1\frac{4}{8}$$

$$\frac{1}{2} + \frac{3}{4} + \frac{3}{8} = 1\frac{5}{8}$$

$$\frac{1}{2} + \frac{3}{4} + \frac{4}{8} = 1\frac{6}{8}$$

$$\frac{1}{2} + \frac{3}{4} + \frac{5}{8} = 1\frac{7}{8}$$