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

b) $\frac{4}{6} + \frac{5}{6} = \frac{9}{6} = 1\frac{3}{6}$ (or $1\frac{1}{2}$)

c) $\frac{4}{7} + \frac{6}{7} = \frac{10}{7} = 1\frac{3}{7}$

2) a) $\frac{4}{7}$

b) $\frac{2}{6}$

c) $\frac{2}{5}$

3) a) $\frac{4}{8}$

b) $\frac{2}{7}$

c) $\frac{7}{6}$ or $1\frac{1}{6}$

d) $\frac{9}{8}$ or $1\frac{1}{8}$

1) Greg has incorrectly added the numerators.

Also, he has added the denominators. When adding fractions, we only add the numerators.

$\frac{5}{6} + \frac{4}{6} = \frac{9}{6} = 1\frac{3}{6} = 1\frac{1}{2}$

(Look for children drawing their own bar models as proof.)

2) There is $\frac{2}{5}$ of one pizza left. Therefore, $\frac{8}{5}$ of the total has been eaten. There are three possibilities:

Monica	Greg
$\frac{7}{5} = 1\frac{2}{5}$	$\frac{1}{5}$
$\frac{6}{5} = 1\frac{1}{5}$	$\frac{2}{5}$
$\frac{5}{5} = 1$	$\frac{3}{5}$

1) There are six possible answers:

$\frac{4}{5} + \frac{0}{5} < \frac{2}{5} + \frac{3}{5}$

$\frac{4}{5} + \frac{0}{5} < \frac{3}{5} + \frac{3}{5}$

$\frac{4}{5} + \frac{0}{5} < \frac{4}{5} + \frac{3}{5}$

$\frac{4}{5} + \frac{1}{5} < \frac{3}{5} + \frac{3}{5}$

$\frac{4}{5} + \frac{1}{5} < \frac{4}{5} + \frac{3}{5}$

$\frac{4}{5} + \frac{2}{5} < \frac{4}{5} + \frac{3}{5}$

2) There are 10 possible solutions:

$\frac{1}{6} + \frac{2}{6} < \frac{8}{6} - \frac{1}{6}$

$\frac{1}{6} + \frac{2}{6} < \frac{8}{6} - \frac{2}{6}$

$\frac{1}{6} + \frac{2}{6} < \frac{8}{6} - \frac{3}{6}$

$\frac{1}{6} + \frac{2}{6} < \frac{8}{6} - \frac{4}{6}$

$\frac{2}{6} + \frac{2}{6} < \frac{8}{6} - \frac{1}{6}$

$\frac{2}{6} + \frac{2}{6} < \frac{8}{6} - \frac{2}{6}$

$\frac{2}{6} + \frac{2}{6} < \frac{8}{6} - \frac{3}{6}$

$\frac{3}{6} + \frac{2}{6} < \frac{8}{6} - \frac{1}{6}$

$\frac{3}{6} + \frac{2}{6} < \frac{8}{6} - \frac{2}{6}$

$\frac{4}{6} + \frac{2}{6} < \frac{8}{6} - \frac{1}{6}$