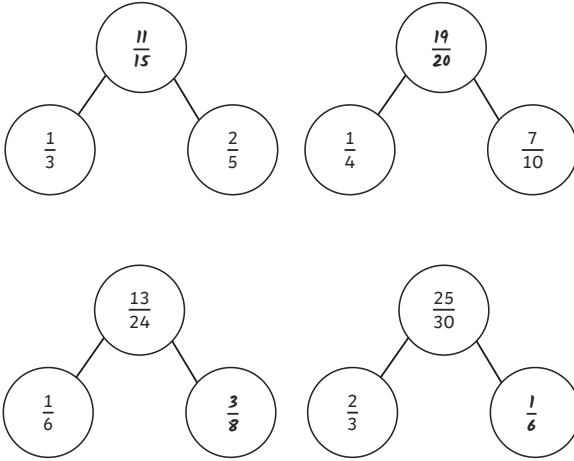




1)



2) $\frac{7}{48}$

1)



$$\frac{1}{8} + \frac{1}{9} = \frac{17}{72}$$

true

$$\frac{4}{9} - \frac{5}{12} = \frac{1}{36}$$

true

$$\frac{1}{9} + \frac{1}{10} = \frac{2}{90}$$

false

$$\frac{2}{9} - \frac{1}{7} = \frac{1}{63}$$

false

$$\frac{3}{5} + \frac{3}{8} = \frac{6}{40}$$

false

$$\frac{11}{12} - \frac{4}{7} = \frac{7}{84}$$

false

$$\frac{4}{7} - \frac{1}{2} = \frac{1}{14}$$

true

$$\frac{2}{5} + \frac{5}{9} = \frac{43}{45}$$

true

$$\frac{4}{5} - \frac{1}{7} = \frac{23}{35}$$

true

2) Mildred the cat is incorrect. $\frac{1}{4} + \frac{3}{8} + \frac{1}{16} = \frac{11}{16}$, so the shaded fraction of box C is $\frac{5}{16}$.

1) a) Hifi is correct: $\frac{1}{2} + \frac{5}{12}, \frac{1}{3} + \frac{7}{12}, \frac{1}{4} + \frac{2}{12}, \frac{1}{4} + \frac{8}{12}, \frac{1}{6} + \frac{3}{12}, \frac{1}{6} + \frac{5}{12}, \frac{1}{6} + \frac{9}{12}$.

b) Mildred is incorrect. There are only five calculations that have an answer with a numerator of 7: $\frac{1}{8} + \frac{9}{12}, \frac{1}{9} + \frac{8}{12}, \frac{1}{5} + \frac{6}{12}, \frac{1}{6} + \frac{5}{12}, \frac{1}{8} + \frac{2}{12}$

c) Oscar is correct. The answer with the largest denominator is made by putting the digit 7 as the denominator in the first fraction and the lowest common multiple of 7 and 12 is 84. (8 and 9 both have lower common multiples with 12.)

