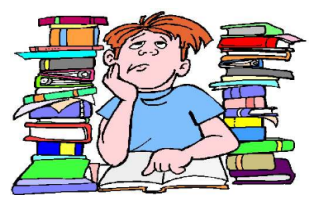


WARM UP GRADE 7

Date: Oct 13



Mental Math

1) 18 x 20

360

18x10x2

180 x2

360

2) 0.5 x 600

$\frac{1}{2}$ of 600

= 300

3) 42 x 5

half ↓ double ↓

21 x 10

210

4) 600-494

600-400 = 200

200-90 = 110

110-4 = 106

600
-494
106

5x40=200
5x2=10
210

Solve

Fred, Becky and Jill are having a pie. Fred eats $\frac{1}{4}$ of the pie, Becky eats $\frac{1}{6}$ of the pie and Jill eats $\frac{1}{3}$ of the pie.

a) How much pie did they eat altogether? Add

b) How much pie is left?

3 → 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36 . . .

4 → 4, 8, 12, 16, 20, 24, 28, 32, 36 . . .

6 → 6, 12, 18, 24, 30, 36 . . .

a) $\frac{4\times1}{4\times3} + \frac{1^{\times3}}{4^{\times3}} + \frac{1^{\times2}}{6^{\times2}}$

$\frac{4}{12} + \frac{3}{12} + \frac{2}{12}$

$= \frac{9}{12}$ $\div 3$ Reduce $\div 3$

$= \frac{3}{4}$

They ate $\frac{3}{4}$ of the pie.

b) 1 whole − Eat

$1 - \frac{3}{4}$

$\frac{4}{4} - \frac{3}{4}$

$\frac{1}{4}$

There is $\frac{1}{4}$ of the pie left.

Homework Solutions

Page 180 #4, #5, #7

1. Solve the addition questions. (Model 1a then use CD for rest. Remember to reduce)

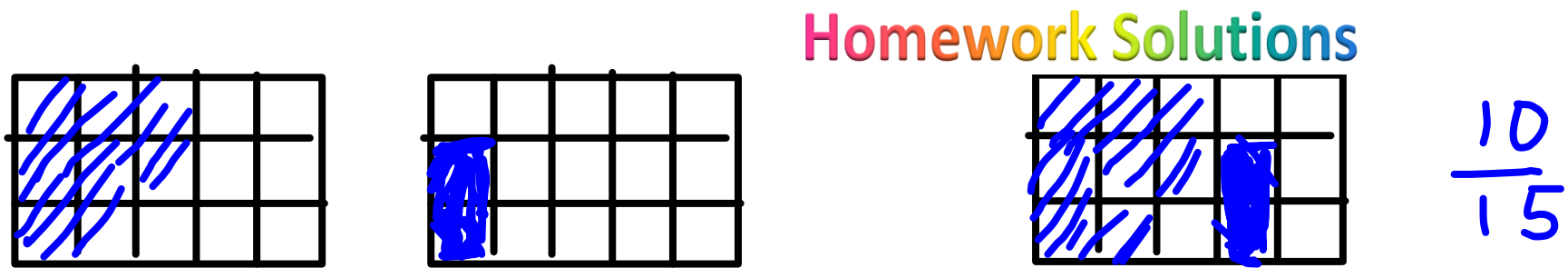
(a) $\frac{8}{15} + \frac{2}{15}$ **(b)** $\frac{1}{7} + \frac{5}{7}$ **(c)** $\frac{7}{10} + \frac{2}{10}$

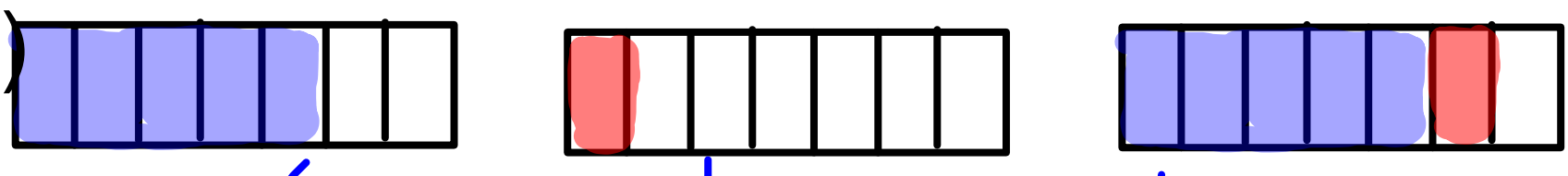
(d) $\frac{9}{15} + \frac{6}{15}$ **(e)** $\frac{4}{5} + \frac{3}{5}$ **(f)** $\frac{6}{8} + \frac{5}{8}$

(g) $\frac{7}{8} + \frac{5}{8}$ **(h)** $\frac{1}{8} + \frac{1}{2}$ **(i)** $\frac{2}{6} + \frac{1}{2}$

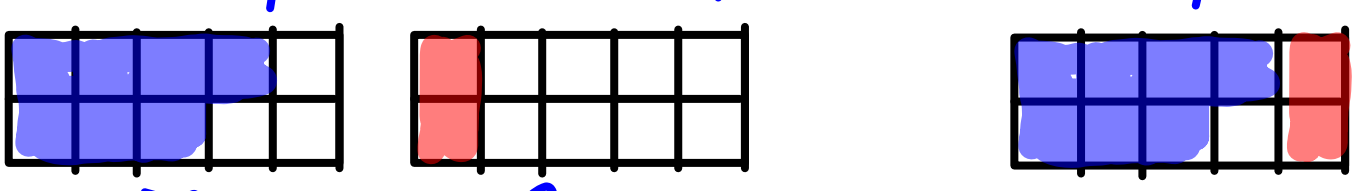
(j) $\frac{5}{9} + \frac{1}{3}$ **(k)** $\frac{1}{2} + \frac{1}{4}$ **(l)** $\frac{3}{10} + \frac{2}{5}$

Homework Solutions

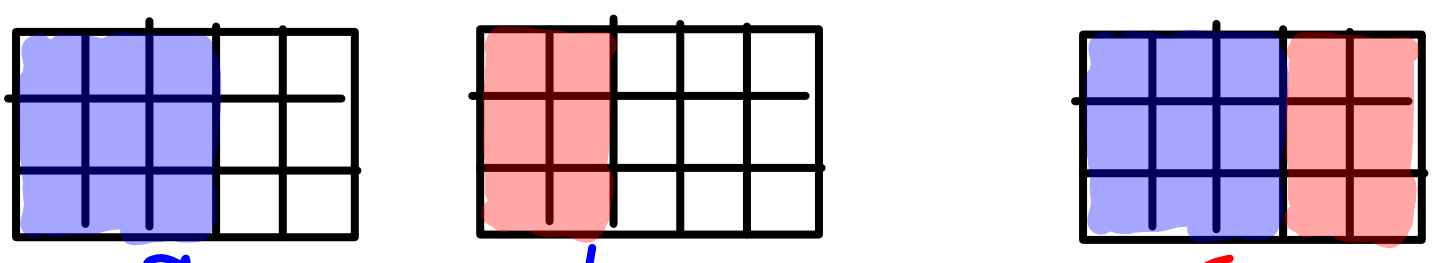
a)  $\frac{10}{15}$

b) 

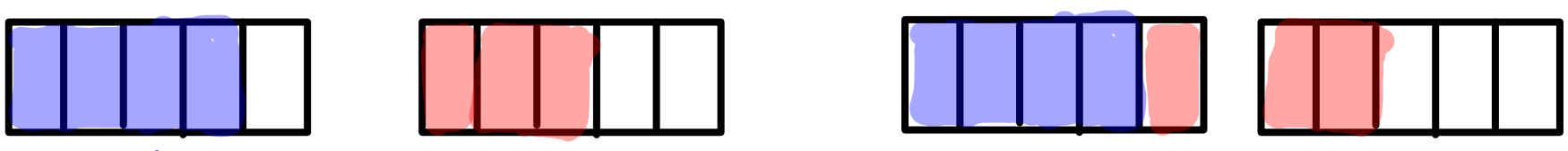
$\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$

c) 

$\frac{7}{10} + \frac{2}{10} = \frac{9}{10}$

d) 

$\frac{9}{15} + \frac{6}{15} = \frac{15}{15} = 1$

e) 

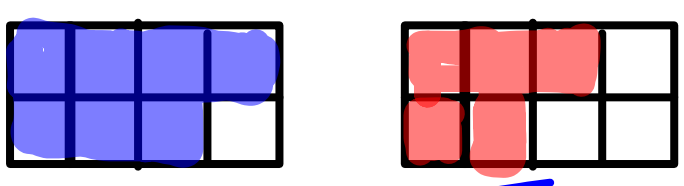
$\frac{4}{5} + \frac{3}{5} = \frac{7}{5}$ or $1\frac{2}{5}$

f) 

$\frac{6}{8} + \frac{5}{8} = \frac{11}{8}$ or $1\frac{3}{8}$

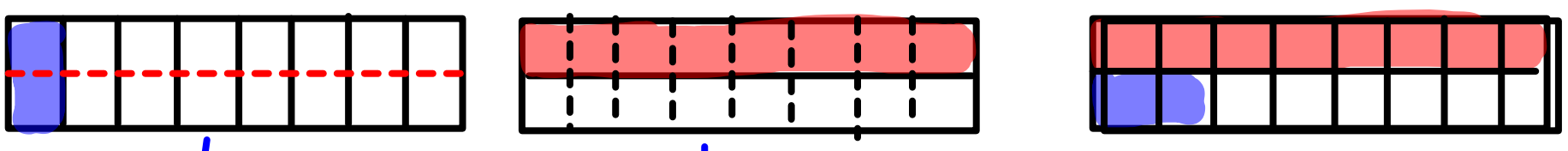
Homework Solutions

g)



$\frac{7}{8} + \frac{5}{8} = \frac{12}{8}$ or $1\frac{4}{8}$ or $1\frac{1}{2}$

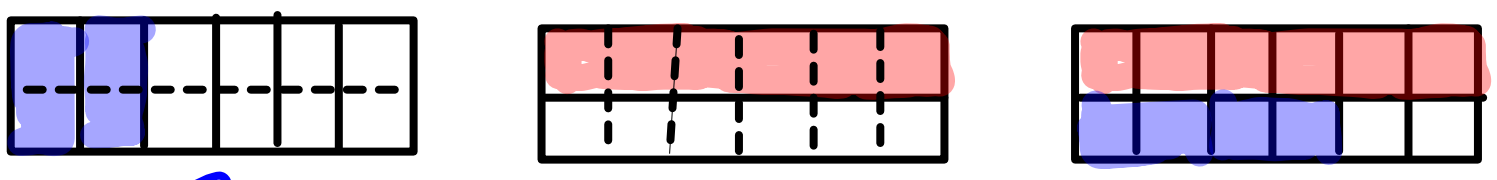
h)



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

$\frac{2}{16} + \frac{8}{16} = \frac{10}{16}$

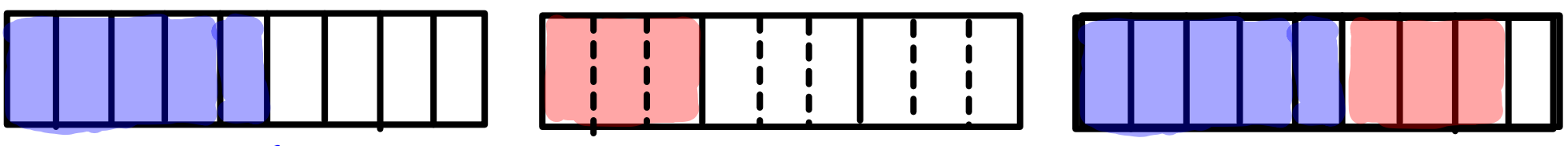
i)



$\frac{2}{6} + \frac{1}{2}$

$\frac{4}{12} + \frac{6}{12} = \frac{10}{12}$

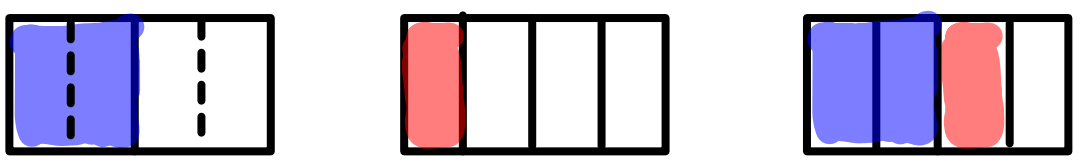
j)



$\frac{5}{9} + \frac{1}{3}$

$\frac{5}{9} + \frac{3}{9} = \frac{8}{9}$

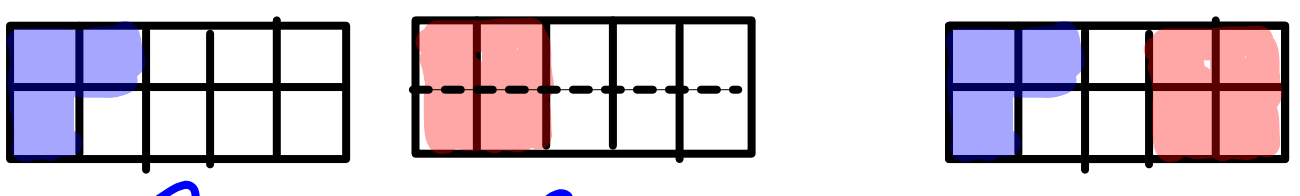
k)



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

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

l)



$\frac{3}{10} + \frac{2}{5}$

$\frac{3}{10} + \frac{4}{10} = \frac{7}{10}$

4. a) $\frac{1}{5} + \frac{1}{5} = \frac{2}{5}$

ii) $\frac{2}{3} + \frac{1}{3} = \frac{3}{3}$ or 1

iii) $\frac{4}{10} + \frac{3}{10} = \frac{7}{10}$

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

b) If you have like denominators, you add the fractions by adding the numerators and keeping the same denominator.

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5 a) $\frac{1}{4} + \frac{2}{4}$ less than 1. since it is 3/4

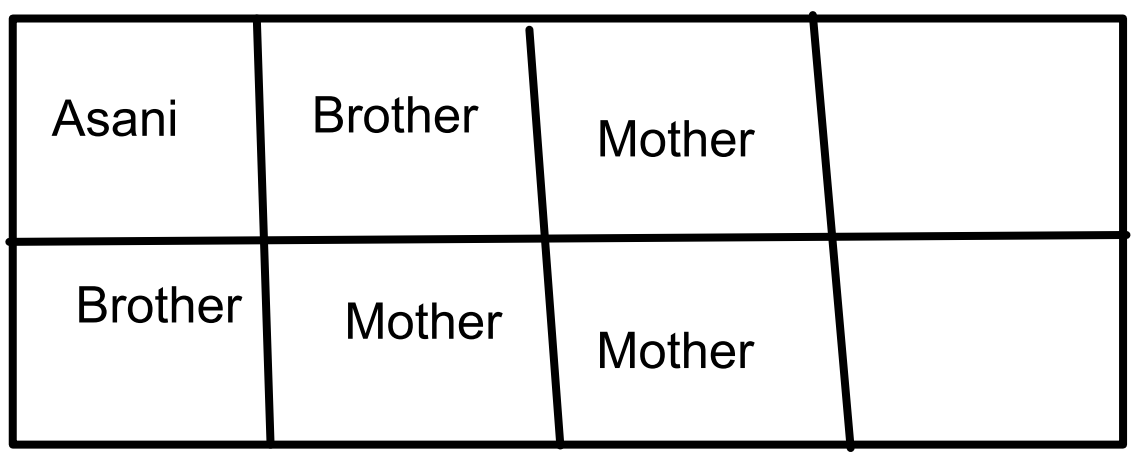
b) $\frac{2}{5} + \frac{7}{5}$ greater than 1, since $\frac{7}{5} > 1$

c) $\frac{3}{4} + \frac{1}{4}$ $= \frac{4}{4}$ which is 1 so it equals 1

d) $\frac{1}{10} + \frac{3}{10}$ < 1, $\frac{1}{10} + \frac{3}{10} = \frac{4}{10}$

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7) Bannock is cut into 8 equal pieces



a) The fraction of the bannock that Asani ate is $\frac{1}{8}$

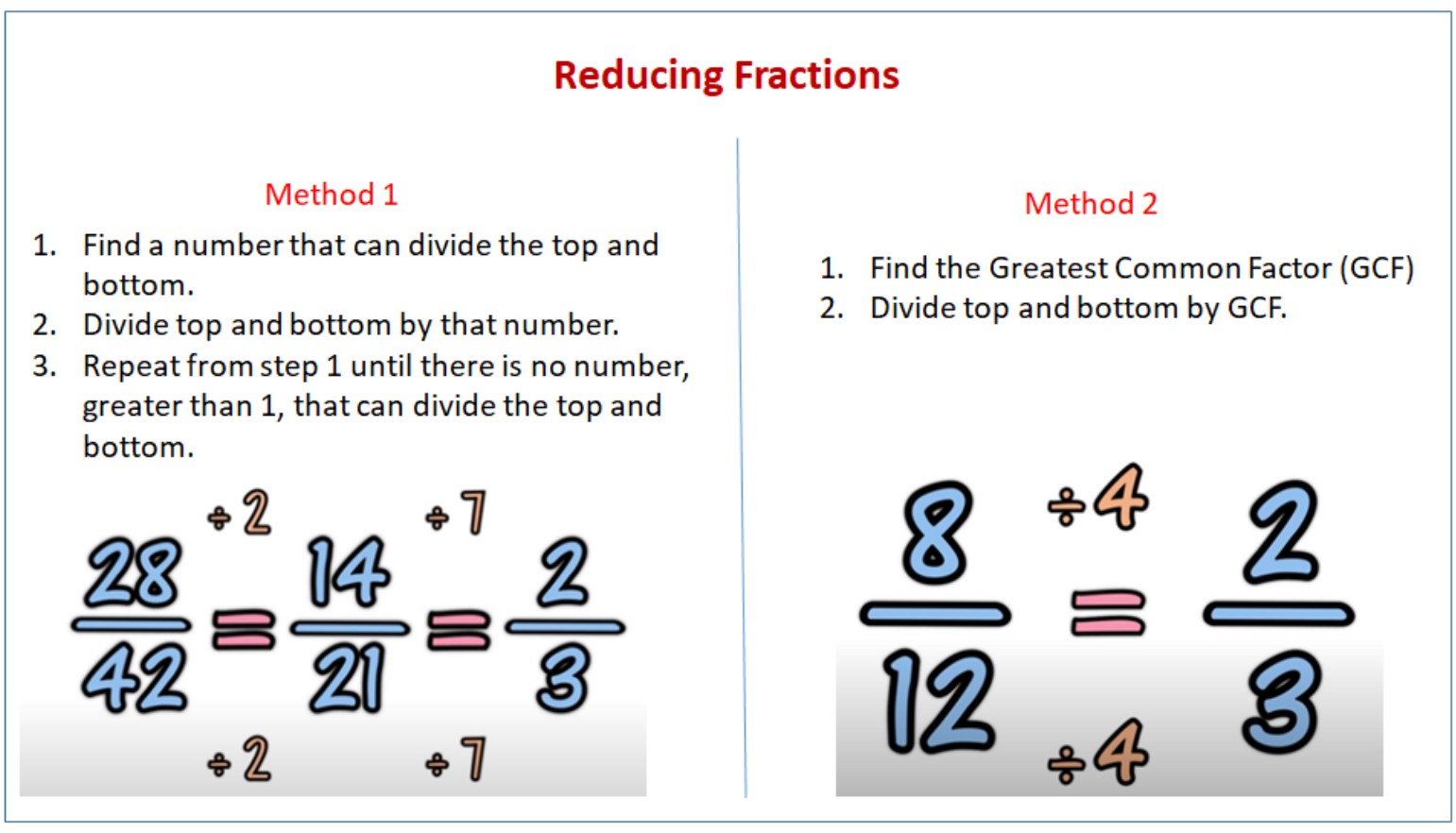
The fraction of the bannock that Asani's brother ate is $\frac{2}{8} = \frac{1}{4}$

The fraction of the bannock that Asani's mother ate is $\frac{3}{8}$

B) The fraction that was eaten was $\frac{6}{8} = \frac{3}{4}$

The fraction that was NOT eaten was $\frac{2}{8} = \frac{1}{4}$

Quick Review of Reducing Fractions



Doesn't matter if it takes you multiple steps or just one step, as long as you get the fraction to lowest terms.

You try

a) Reduce

$\frac{24}{60} \overset{\div 12}{\underset{\div 12}{}} = \frac{2}{5}$

$\frac{24}{60} \overset{\div 2}{\underset{\div 2}{}}$

$= \frac{12}{30} \overset{\div 2}{\underset{\div 2}{}}$

$= \frac{6}{15} \overset{\div 3}{\underset{\div 3}{}}$

$= \boxed{\frac{2}{5}}$

b) Express the fraction in lowest terms

$\frac{36}{48} \overset{\div 2}{\underset{\div 2}{}}$

$= \frac{18}{24} \overset{\div 2}{\underset{\div 2}{}}$

$= \frac{9}{12} \overset{\div 3}{\underset{\div 3}{}}$

$= \boxed{\frac{3}{4}}$

OR $\frac{36}{48} \overset{\div 12}{\underset{\div 12}{}}$

$= \boxed{\frac{3}{4}}$

$$\frac{24}{36} \begin{matrix} \div 2 \\ \div 2 \end{matrix} = \frac{12}{18} \begin{matrix} \div 2 \\ \div 2 \end{matrix} = \frac{6}{9} \begin{matrix} \div 3 \\ \div 3 \end{matrix} = \boxed{\frac{2}{3}}$$

$$\frac{24}{36} \begin{matrix} \div 6 \\ \div 6 \end{matrix} = \frac{4}{6} \begin{matrix} \div 2 \\ \div 2 \end{matrix} = \boxed{\frac{2}{3}}$$

$$\frac{24}{36} \begin{matrix} \div 12 \\ \div 12 \end{matrix} = \boxed{\frac{2}{3}}$$

Class / Homework

Extra Practice 1 # 1-4

Extra Practice 2 # 1-7

Use Common Denominators

No Modeling

$\frac{7}{12} \overset{\times 5}{=} \frac{35}{60}$ $\quad\quad$ $\frac{20}{24} = \frac{\quad}{60}$

$\frac{1}{4} = \frac{15}{60}$ $\quad\quad$ $\frac{10}{12} = \frac{50}{60}$