Grade 7 Warm Up

Date:

Model each of the following subtraction questions

a) $\frac{9}{10} - \frac{2}{5}$ ×2 ×2

$= \frac{9}{10} - \frac{4}{10}$

$= \frac{5}{10}$ Reduce

$= \frac{5 \div 5}{10 \div 5}$

$= \frac{1}{2}$

b) $2 - \frac{3}{4}$

$= \frac{2 \times 4}{1 \times 4} - \frac{3}{4}$ ← Need C.D.

$= \frac{8}{4} - \frac{3}{4}$

$= \frac{5}{4}$

$= 1\frac{1}{4}$

Box 80 5 1600 400

Mental Math Review

1) 80 x 25

80 ×25 400 1600 2000

half 40 x 50 double

2000

2) 21 x 11

21 ×11 21 210 231

21 x 10 = 210

1 x 21 = + 21

231

2) half of 24

12

3) 0.5 x 150

$\frac{1}{2}$ of 150 = 75

5) (-7) – (+8)

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1a) $\frac{1}{2}\times\frac{4}{4}$ and $\frac{5}{8}$

$\frac{4}{8}$ $\frac{5}{8}$

b) $\frac{1}{4}$ and $\frac{1}{3}$

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

c) $\frac{2}{3}$ and $\frac{1}{6}$

$\frac{4}{6}$ $\frac{1}{6}$

d) $\frac{3}{5}$ and $\frac{1}{2}$

$\frac{6}{10}$ $\frac{5}{10}$

2a) $\frac{5}{6} - \frac{1}{2}$

less than $\frac{1}{2}$

$1 - \frac{1}{2} = \frac{1}{2}$

and $\frac{5}{6}$ less than 1

b) $\frac{7}{8} - \frac{1}{8}$

more than $\frac{1}{2}$

$\frac{6}{8} = \frac{3}{4}$

c) $\frac{4}{6} - \frac{1}{3}$

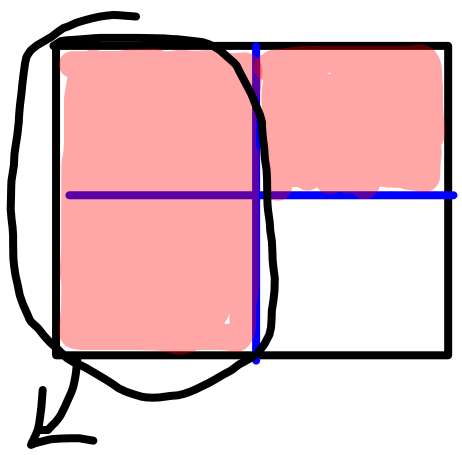
less than $\frac{1}{2}$

$\frac{4}{6} - \frac{2}{6} = \frac{2}{6} < \frac{1}{2}$

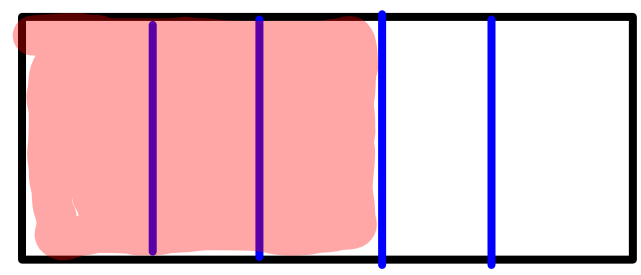
d) $1 - \frac{5}{6}$

$= \frac{1}{6}$ so less than $\frac{1}{2}$

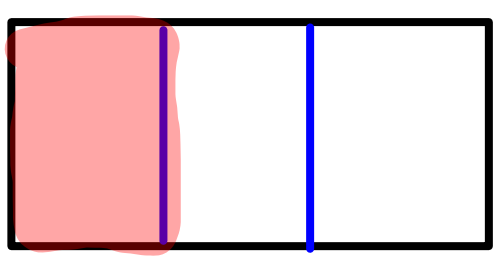
3. a) $\frac{3}{4} - \frac{2}{4} = \frac{1}{4}$



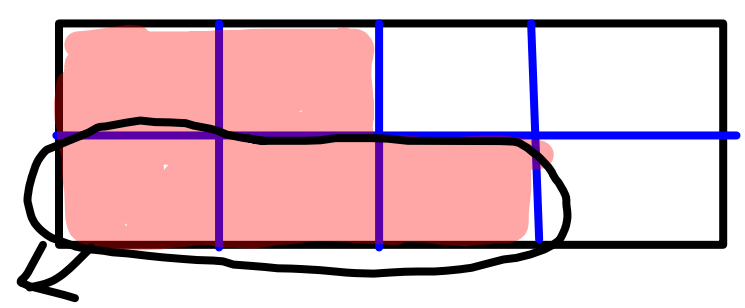
b) $\frac{4}{5} - \frac{1}{5} = \frac{3}{5}$



c) $\frac{2}{3} - \frac{1}{3} = \frac{1}{3}$



d) $\frac{5}{8} - \frac{3}{8} = \frac{2}{8}$



4. If you are subtracting fractions with like denominators, then subtract the numerators and the denominator will stay the same.

5. a) $\frac{7}{9} - \frac{1}{3}$

$\frac{7}{9} - \frac{3}{9} = \frac{4}{9}$

b) $\frac{7}{8} - \frac{3}{4}$

$\frac{7}{8} - \frac{6}{8} = \frac{1}{8}$

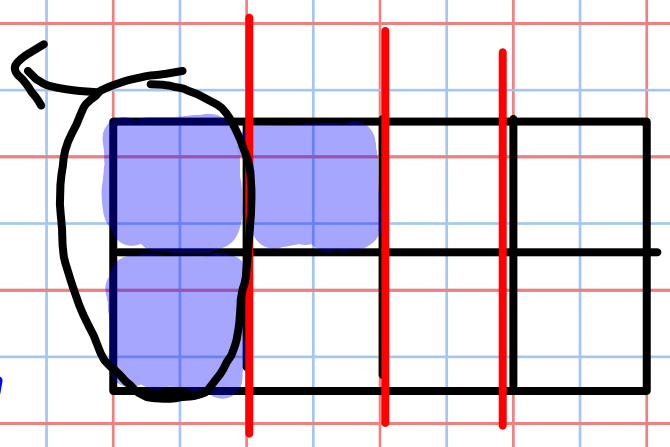
c) $\frac{8}{10} - \frac{2}{5}$

$\frac{8}{10} - \frac{4}{10} = \frac{4}{10}$

d) $\frac{11}{12} - \frac{2}{3}$

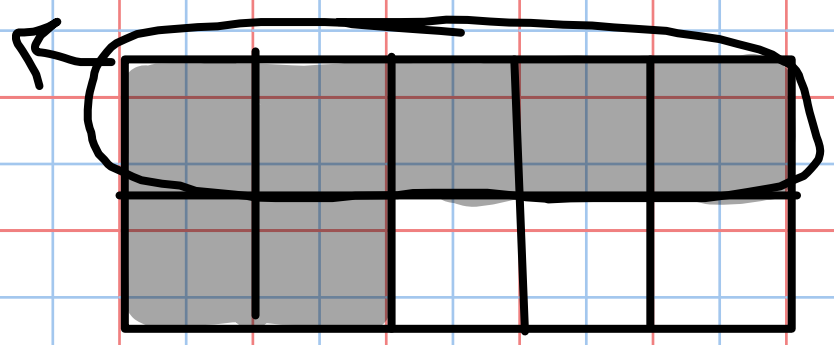
$\frac{11}{12} - \frac{8}{12} = \frac{3}{12}$

6 a) $\frac{3}{8} - \frac{1}{4}$



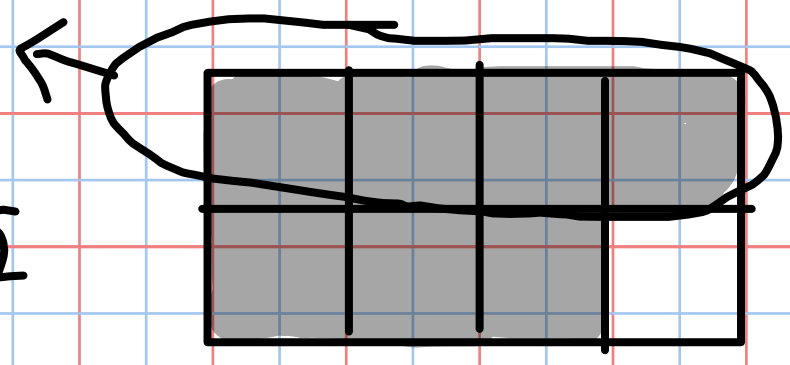
$\frac{3}{8} - \frac{2}{8} = \frac{1}{8}$

b) $\frac{7}{10} - \frac{1}{2}$



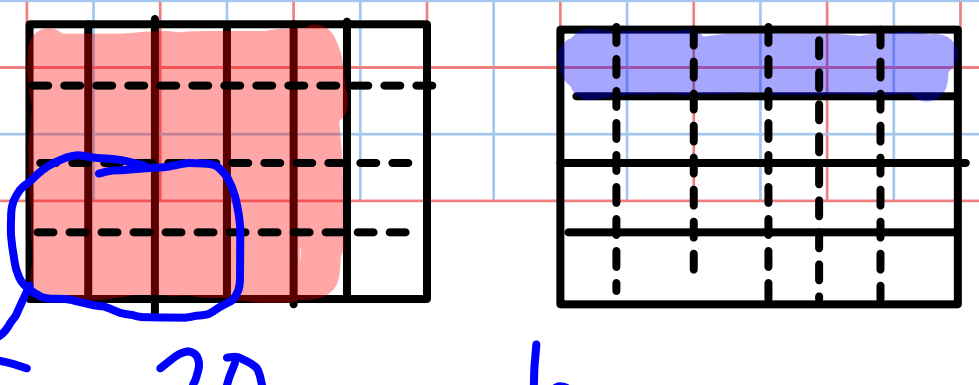
$= \frac{2}{10}$

c) $\frac{7}{8} - \frac{1}{2}$



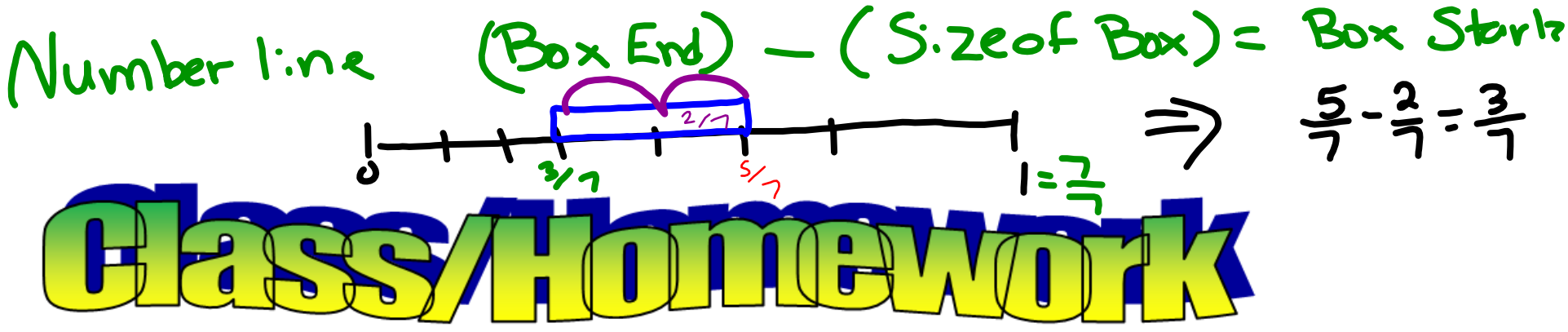
$\frac{3}{8}$

d) $\frac{5}{6} - \frac{1}{4}$



$= \frac{14}{24}$

$\frac{20}{24} - \frac{6}{24}$



Finish Page 193 #3a(number line), 5abc, 6(use Common Denominators)

New today

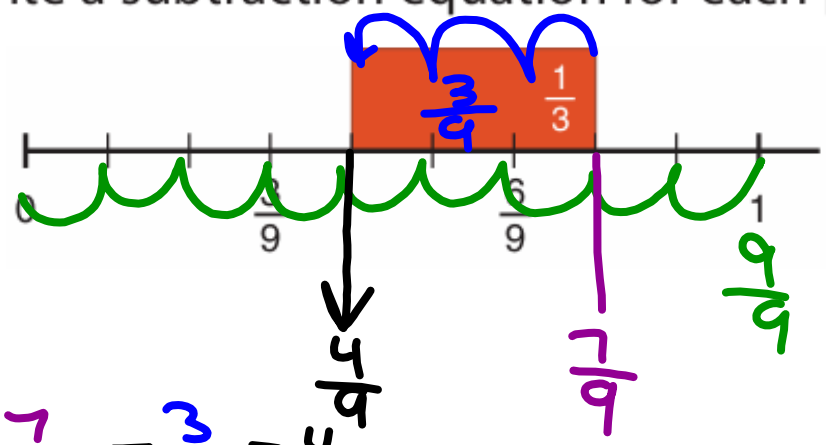
Page 193 #7 Must show work but you can use the common denominator method instead of models

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#8, #9, #10, #11, #12

5. Write a subtraction equation for each picture.

a)

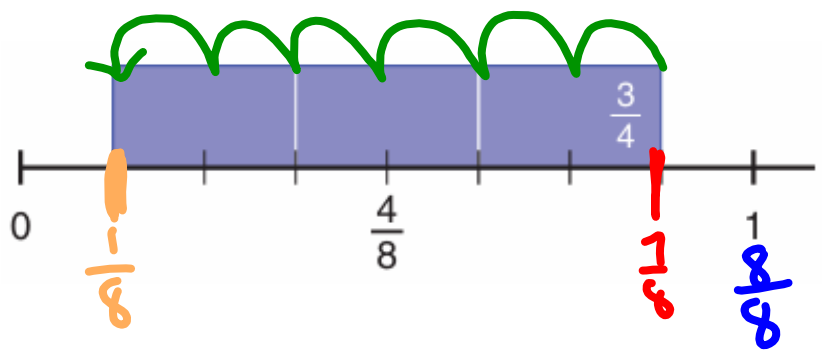


$\frac{7}{9} - \frac{3}{9} = \frac{4}{9}$

↓ Reduce

$\frac{7}{9} - \frac{1}{3} = \frac{4}{9}$

b)

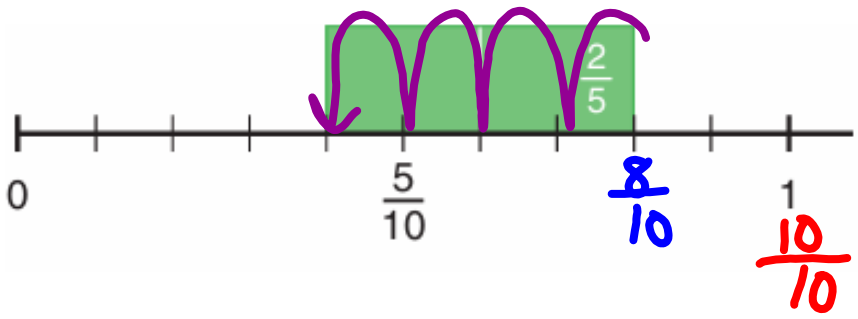


$\frac{7}{8} - \frac{6}{8} = \frac{1}{8}$

Reduce

$\frac{7}{8} - \frac{3}{4} = \frac{1}{8}$

c)

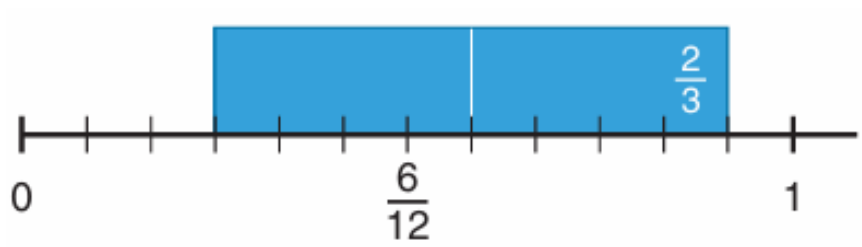


$\frac{8}{10} - \frac{4}{10} = \frac{4}{10}$

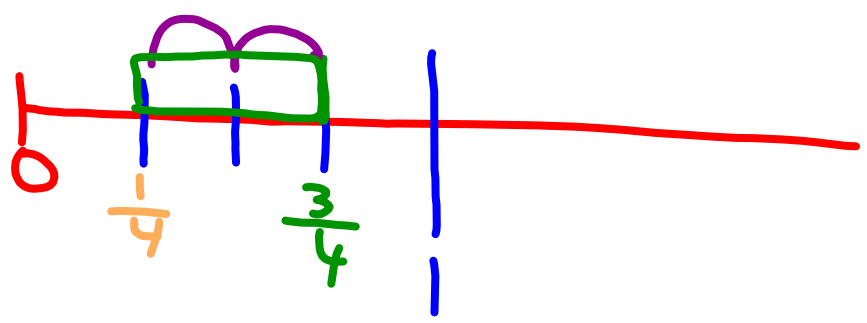
↓ Reduce ↓ ↓

$\frac{4}{5} - \frac{2}{5} = \frac{2}{5}$

d)



3a) $\frac{3}{4} - \frac{2}{4} = \frac{1}{4}$ ← Need C.D.



6. Subtract. Sketch pictures to show each difference.

a) $\frac{3}{8} - \frac{1}{4}$ ×2 ×2 b) $\frac{7}{10} - \frac{1}{2}$ c) $\frac{7}{8} - \frac{1}{2}$ d) $\frac{5}{6} - \frac{1}{4}$

$= \frac{3}{8} - \frac{2}{8}$

$= \boxed{\frac{1}{8}}$