

WARM UP GRADE 7

Date:



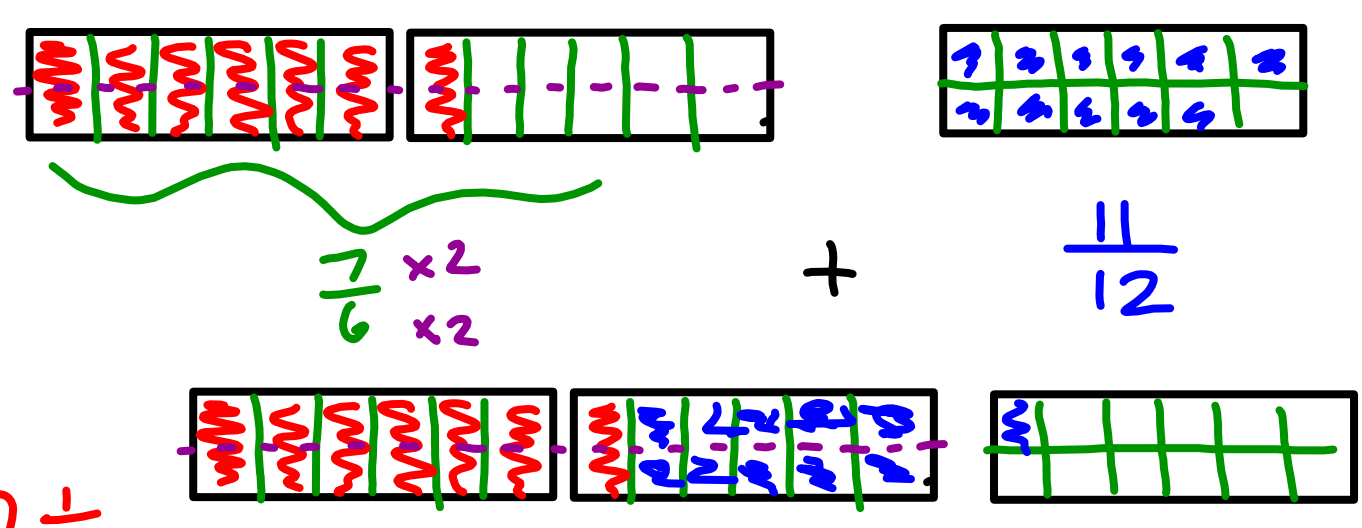
Model the following with fractions rectangles:

$\frac{7}{6} + \frac{11}{12}$

$\frac{7 \times 2}{6 \times 2} + \frac{11}{12}$

$\frac{14}{12} + \frac{11}{12}$

$\frac{25}{12} = 2\frac{1}{12}$



Add the following using common denominators:

a) $\frac{12}{10} + \frac{3}{4} \times 5$

10, 20, 30, 40, 50, . . .

4, 8, 12, 16, 20, 24, 28 . . .

$\frac{24}{20} + \frac{15}{20}$

Add top

$\frac{39}{20}$

$1\frac{19}{20}$

b) $\frac{3}{8} + \frac{4}{7}$ (×7, ×8)

$\frac{21}{56} + \frac{32}{56}$

$= \frac{53}{56}$

8, 16, 24, 32, 40, 48, 56, . . .

7, 14, 21, 28, 35, 42, 49, 56 . . .

Pg 189

7. a) Edna $\frac{1}{10}$, Farrah $\frac{3}{5}$, Ferris $\frac{1}{2}$

This is not true, it is more than 1, $\frac{3}{5} > \frac{1}{2}$ plus $\frac{1}{2}$ has to be more than 1.

$\frac{1}{10} + \frac{3}{5} + \frac{1}{2}$

$\frac{1}{10} + \frac{6}{10} + \frac{5}{10} = \frac{12}{10}$ which is greater than 1.

b) Edna $\frac{3}{10}$ Farrah $\frac{1}{5}$ Ferris $\frac{1}{2}$

$\frac{3}{10} + \frac{1}{5} + \frac{1}{2}$

$\frac{3}{10} + \frac{2}{10} + \frac{5}{10} = \frac{10}{10} = 1$, yes this is true

8. $\frac{3}{10} + \frac{2}{3}$

$\frac{9}{30} + \frac{20}{30} = \frac{29}{30}$

Almost the whole driveway was shovelled

9. a) $\frac{7}{10} = \frac{1}{5} + \frac{1}{2}$

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

$\frac{7}{10}$

correct

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

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

$\frac{7}{12}$

Incorrect

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

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

$= \frac{4}{6}$

Incorrect

d) $\frac{7}{12} = \frac{1}{2} + \frac{1}{6}$

$\frac{6}{12} + \frac{2}{12}$

$\frac{8}{12}$

Incorrect

e) $\frac{11}{18} = \frac{1}{2} + \frac{1}{9}$

$\frac{9}{18} + \frac{2}{18}$

$\frac{11}{18}$

Correct

f) $\frac{2}{15} = \frac{1}{10} + \frac{1}{30}$

$\frac{3}{30} + \frac{1}{30}$

$\frac{4}{30} = \frac{2}{15}$

Correct

10a) $\frac{3}{8} + \frac{1}{2} + \frac{3}{4}$

$\frac{3}{8} + \frac{4}{8} + \frac{6}{8} = \frac{13}{8} = 1\frac{5}{8}$

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

$\frac{5}{20} + \frac{30}{20} + \frac{8}{20} = \frac{43}{20} = 2\frac{3}{20}$

c) $\frac{2}{3} + \frac{5}{6} + \frac{4}{9}$

$\frac{12}{18} + \frac{15}{18} + \frac{8}{18} = \frac{35}{18} = 1\frac{17}{18}$

Sheet · Extra Practice 3

1a) $\frac{5}{6}$ and $\frac{2}{3}$

Common Denom. 6

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

12

c) $\frac{5}{6}$ and $\frac{1}{4}$

12

d) $\frac{7}{8}$ and $\frac{2}{3}$

24

2. a) $\frac{1}{4}+\frac{3}{5}$ $\approx$ between $\frac{4}{5}$ and 1 or almost 1

$\frac{5}{20}+\frac{12}{20}$

$\frac{17}{20}$

b) $\frac{5}{8}+\frac{1}{3}$ $\approx$ almost 1

$\frac{15}{24}+\frac{8}{24}$

$\frac{23}{24}$

c) $\frac{2}{5}+\frac{1}{8}$ $\approx$ about $\frac{1}{2}$

$\frac{16}{40}+\frac{5}{40}$

$\frac{21}{40}$

d) $\frac{3}{10}+\frac{1}{3}$ $\approx$ little more than $\frac{1}{2}$ about $\frac{2}{3}$

$\frac{9}{30}+\frac{10}{30}$

$\frac{19}{30}$

Class/Homework

use C.D. (No Estimates)

Sheet 3 # 3, 4 , 5, 6

pg 190 # 1, 2, 3a, 6,7

Short Quiz Tomorrow ~~Tomorrow~~ Tuesday

5a) $\frac{9\times}{9\times}\frac{1}{4} + \frac{1\times4}{9\times4} + \frac{1\times3}{12\times3}$ ← C.D.

$\frac{9}{36} + \frac{4}{36} + \frac{3}{36}$

$\frac{16}{36} \overset{\div 2}{=}$ Reduce $\div 2$

$= \frac{8}{18} \div 2$

$= \boxed{\frac{4}{9}}$

∴