WARM UP GRADE 7

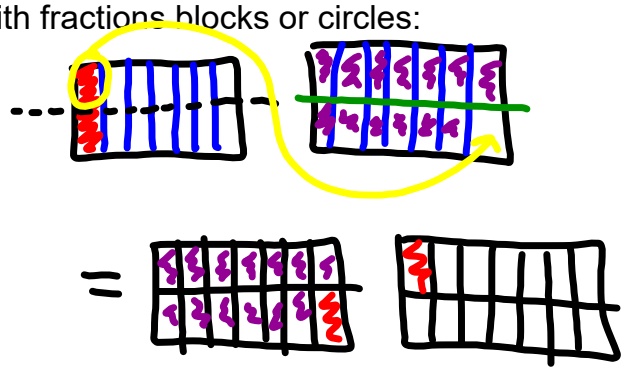
Model the following with fractions blocks or circles:

$2\frac{1}{7} + \frac{13}{14}$

$2 \times 7 \quad 14$

$\frac{2}{14} + \frac{13}{14}$

$\frac{15}{14} = 1\frac{1}{14}$

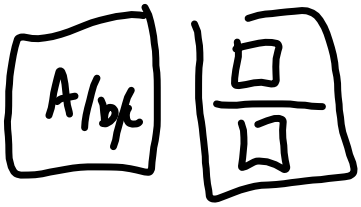


Add the following using common denominators: $\frac{3}{9} + \frac{5}{12}$

$4 \times \quad \times 3$

$4\times \quad \frac{3}{9} + \frac{5}{12} \quad \times 3$

$\frac{12}{36} + \frac{15}{36}$



$= \frac{27}{36} \quad \begin{matrix} \div 9 \\ \div 9 \end{matrix} = \boxed{\frac{3}{4}}$

Reduce (÷ top/bottom by same #)

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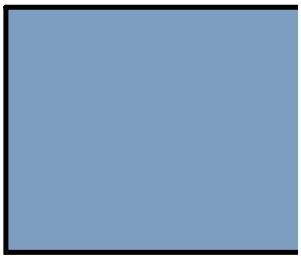
Common Denominator

1. $\frac{1}{2}$ and $\frac{5}{8}$ — 8

b) $\frac{1}{8}$ and $\frac{2}{3}$ — 24



c) $\frac{2}{3}$ and $\frac{1}{9}$ — 9

d) $\frac{3}{5}$ and $\frac{2}{3}$ — 15

2a) $\frac{3}{12} \overset{\div 3}{=} \frac{1}{4}$

b) $\frac{3}{4} \overset{\times 2}{=} \frac{6}{8}$

c) $\frac{3}{6} = \frac{}{4}$

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

d) $\frac{6}{8} = \frac{15}{}$

$\frac{3}{4} = \frac{15}{20}$

3 a) $\frac{4}{9} + \frac{1}{3}$

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

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

$\frac{3}{6} + \frac{2}{6} = \frac{5}{6}$

c) $\frac{3}{8} + \frac{3}{2}$

$\frac{3}{8} + \frac{12}{8} = \frac{15}{8}$

d) $\frac{3}{4} + \frac{1}{6}$

$\frac{9}{12} + \frac{2}{12} = \frac{11}{12}$

4 a) $\frac{3}{5} \times 4 + \frac{4}{8} \times 5$ ≈ a little more than 1.

$\frac{24}{40} + \frac{20}{40}$

$\frac{44}{40}$

b) $\frac{1}{6} + \frac{5}{8}$ ≈ $\frac{6}{8}$ or $\frac{3}{4}$

$\frac{4}{24} + \frac{15}{24}$

$\frac{19}{24}$

c) $\frac{5}{6} \times 3 + \frac{7}{9} \times 2$ ≈ 1+1 almost 2

$\frac{15}{18} + \frac{14}{18}$

$\frac{29}{18}$

d) $\frac{3}{4} + \frac{4}{7} \times 4$ ≈ almost $1\frac{1}{2}$

$\frac{21}{28} + \frac{16}{28}$

$\frac{37}{28}$

e) $\frac{1}{3} + \frac{2}{5}$ ≈ little more than $\frac{1}{2}$

$\frac{5}{15} + \frac{6}{15}$

$\frac{11}{15}$

f) $\frac{1}{5} + \frac{5}{6}$ ≈ little more than 1

$\frac{6}{30} + \frac{25}{30}$

$\frac{31}{30}$

5. $\frac{1}{8} + \frac{1}{16}$

$\frac{2}{16} + \frac{1}{16} = \frac{3}{16}$ of the page had advertisements.

6. $\frac{2}{3} + \frac{5}{6}$ or $\frac{3}{4} + \frac{4}{5}$

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

so probably bigger

$\frac{4}{6} + \frac{5}{6} = \frac{9}{6}$

$= \frac{3}{2}$ or $1\frac{1}{2}$

$\frac{15}{20} + \frac{16}{20} = \frac{31}{20}$

$= 1\frac{11}{20}$

$\frac{3}{4} + \frac{4}{5}$ is greater.

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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

Class/Homework

Homework pg. 189 # 8, 9,10

Extra Practice 3 # 1,2

Extra Practice 3

Quiz _____

1. Find the common denominator for each pair of fractions.

(a) $\frac{5}{6}$ and $\frac{2}{3}$ (b) $\frac{1}{4}$ and $\frac{1}{3}$ (c) $\frac{5}{6}$ and $\frac{1}{4}$ (d) $\frac{7}{8}$ and $\frac{2}{3}$

6

2. Add. Estimate first

(a) $\frac{1}{4} + \frac{3}{5}$ (b) $\frac{5}{8} + \frac{1}{3}$ (c) $\frac{2}{5} + \frac{1}{8}$ (d) $\frac{3}{10} + \frac{1}{3}$

– + –

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

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

$\frac{2}{10} + \frac{5}{10} = \frac{7}{10}$

✓

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

$\frac{4}{12} + \frac{3}{12} = \frac{7}{12}$

✗

Attachments

Extra Practice 3 Using Symbols to add Fractions Common Denominator.pdf