

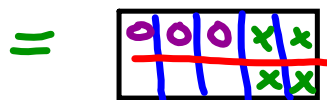
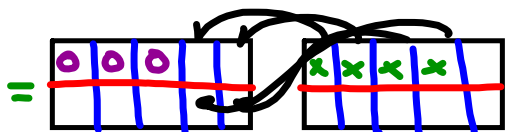


Warm Up Grade 7



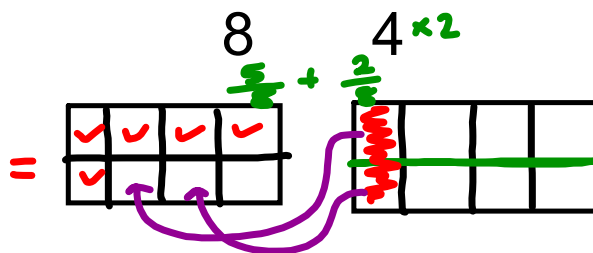
Use Fraction rectangles

$$a) \frac{3}{10} + \frac{4}{10}$$



$$\frac{7}{10}$$

$$b) \frac{5}{8} + \frac{1}{4} \times 2$$



$$\frac{7}{8}$$

$$c) \frac{1}{2} \times 3 + \frac{1}{3} \times 2$$

2 → 2, 4, 6, 8, 10, ...

3 → 3, 6, 9, 12, ...

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

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

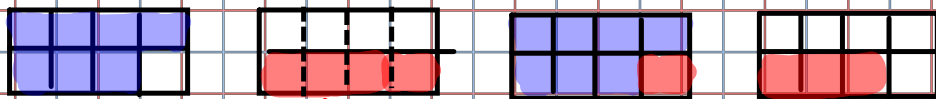
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$$\begin{aligned} \text{a) } & \frac{2}{4} + \frac{1}{2} \\ & \frac{2}{4} + \frac{2}{4} = \frac{4}{4} \\ & \text{or } 1 \end{aligned}$$

$$\begin{aligned} \text{b) } & \frac{2}{3} + \frac{4}{6} \\ & \frac{4}{6} + \frac{4}{6} = \frac{8}{6} \text{ or } 1\frac{2}{6} \end{aligned}$$

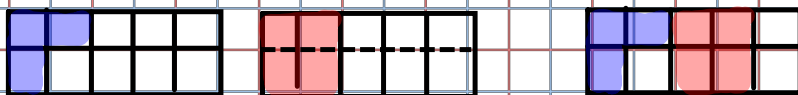
$$\begin{aligned} \text{c) } & \frac{7}{10} + \frac{4}{5} \\ & \frac{7}{10} + \frac{8}{10} = \frac{15}{10} \text{ or } 1\frac{5}{10} \text{ or } 1\frac{1}{2} \end{aligned}$$

$$2a) \frac{7}{8} + \frac{1}{2}$$



$$\frac{7}{8} + \frac{4}{8} = \frac{11}{8} \text{ or } 1\frac{3}{8}$$

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



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

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



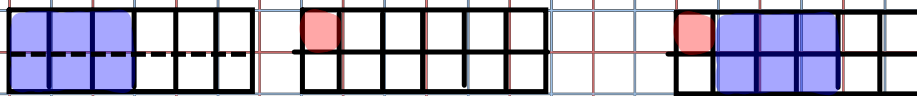
$$\frac{4}{6} + \frac{3}{6} = \frac{7}{6} \text{ or } 1\frac{1}{6}$$

$$d) \frac{2}{3} + \frac{5}{6}$$



$$\frac{4}{6} + \frac{5}{6} = \frac{9}{6} \text{ or } 1\frac{3}{6} \text{ or } 1\frac{1}{2}$$

$$(e) \frac{3}{6} + \frac{1}{12}$$



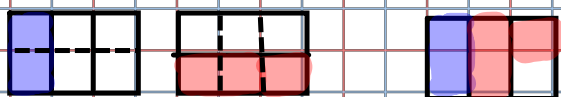
$$\frac{6}{12} + \frac{1}{12} = \frac{7}{12}$$

$$f) \frac{1}{4} + \frac{2}{8}$$



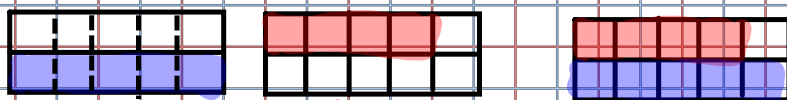
$$\frac{2}{8} + \frac{2}{8} = \frac{4}{8}$$

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



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

$$h) \frac{1}{2} + \frac{4}{10}$$



$$\frac{5}{10} + \frac{4}{10} = \frac{9}{10}$$

3.

$$\frac{1}{3} + \frac{1}{6}$$

$$\frac{2}{6} + \frac{1}{6} = \frac{3}{6} \text{ or } \frac{1}{2} \text{ hour spent practicing.}$$

Model

$$\frac{1 \times 2}{7 \times 2} + \frac{9}{14}$$

$$\frac{2}{14} + \frac{9}{14}$$

$$\frac{2}{14} + \frac{9}{14}$$

$$\frac{11}{14}$$

1. Model the following to solve the addition questions.

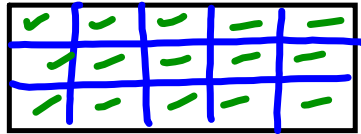
(a) $\frac{8}{15} + \frac{2}{15} = \frac{10}{15} \div 5 = \frac{2}{3}$ (b) $\frac{1}{7} + \frac{5}{7} = \frac{6}{7}$ (c) $\frac{7}{10} + \frac{2}{10}$

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

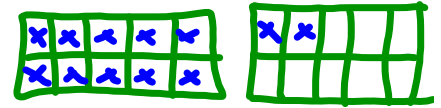
(j) $\frac{5}{9} + \frac{1}{3}$ (k) $\frac{1}{2} + \frac{1}{4}$ (l) $\frac{3}{10} + \frac{2}{5}$

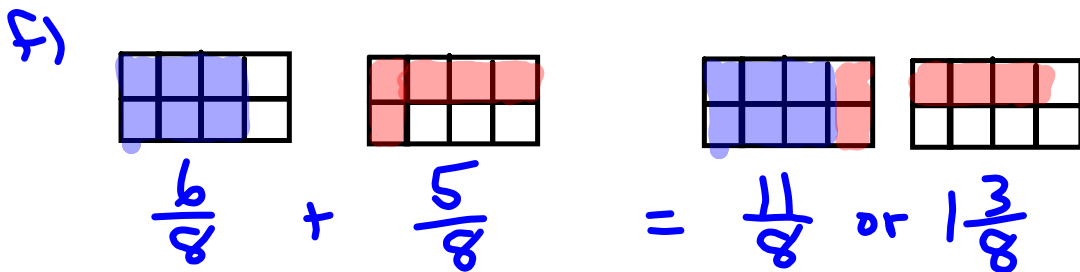
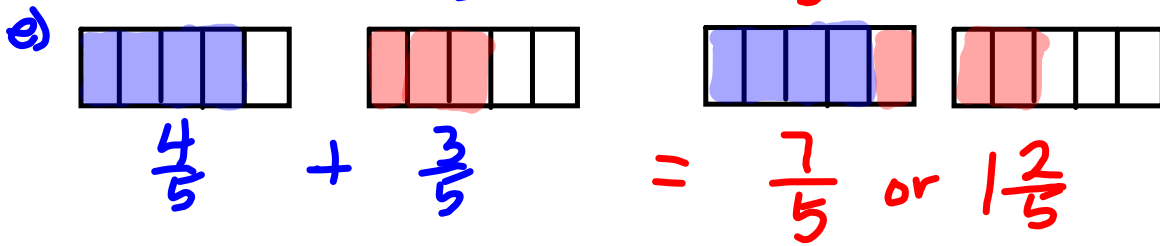
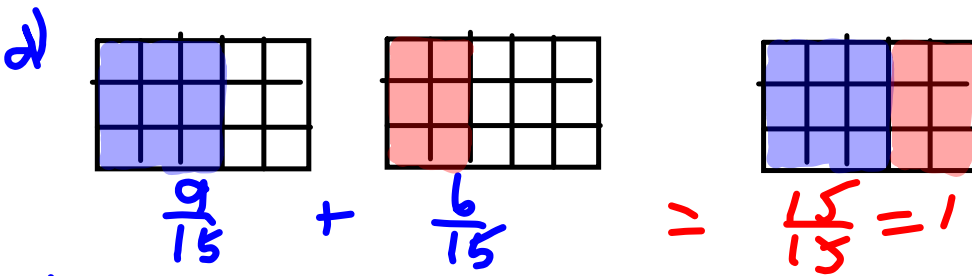
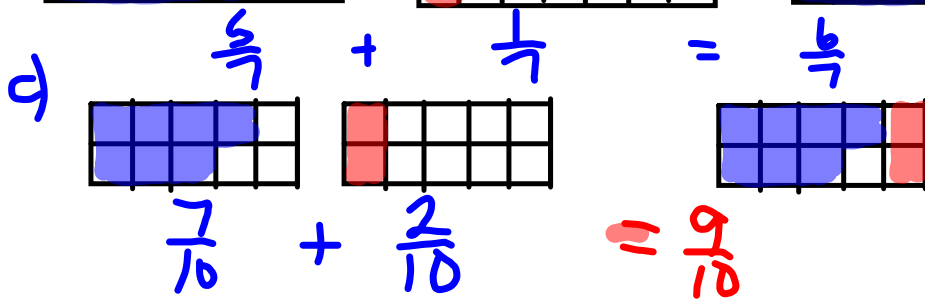
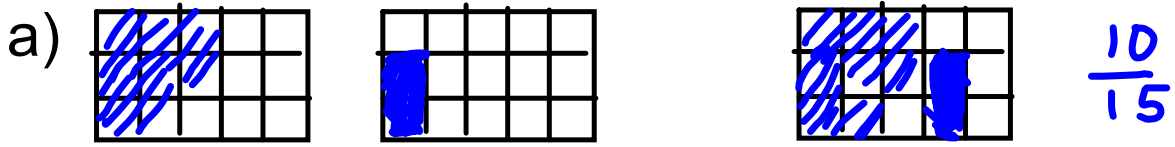
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$$\frac{15}{15} = 1$$

or $\frac{12}{10} = \left(\frac{2}{10} = \frac{1}{5}\right)$





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$$\frac{7}{10} + \frac{5}{10} = \frac{12}{10} \text{ or } \frac{14}{10} \text{ or } 1\frac{4}{10}$$

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

30

$$\frac{4}{6} + \frac{2}{6} = \frac{6}{6} = 1$$

31

$$\frac{5}{9} + \frac{4}{9} = \frac{9}{9} = 1$$

32

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

33

$$\frac{6}{10} + \frac{4}{10} = \frac{10}{10} = 1$$

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

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

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

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

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

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

less than 1. since it is $\frac{3}{4}$

$$\text{b) } \frac{2}{5} + \frac{7}{5}$$

greater than 1, since $\frac{7}{5} > 1$

$$\text{c) } \frac{3}{4} + \frac{1}{4}$$

$= \frac{4}{4}$ which is 1
so it equals 1

$$\text{d) } \frac{1}{10} + \frac{3}{10}$$

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

Pass out and have students make their own fraction strips.
Worth 10 marks in class tomorrow.

$\frac{1}{9} \rightarrow$ Peach / Beige / Skin Color

