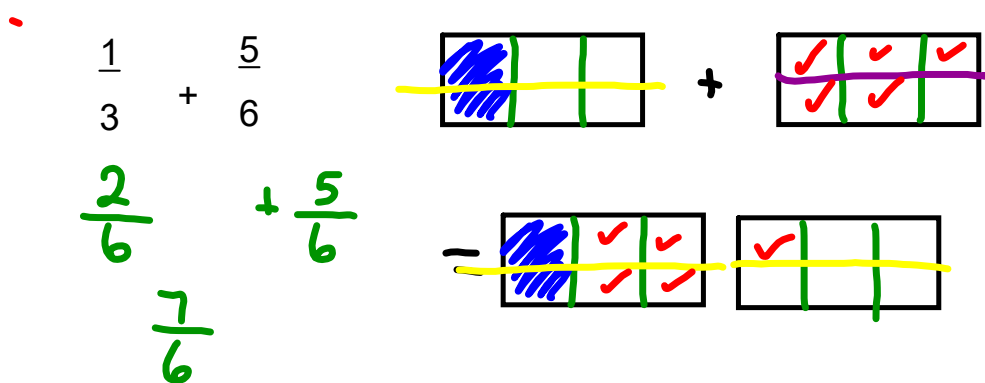


model **With Rectangle**



Add the following (Use CD)

$$\begin{array}{r}
 2 \times \frac{7}{8} + \frac{3}{8} \\
 \frac{12}{8} + \frac{3}{8} \\
 \xrightarrow{\times 2} \frac{14}{24} + \frac{9}{24} \\
 \text{Add top} \\
 = \frac{23}{24}
 \end{array}$$

Ex) **FF reduce**

$$\frac{14 \div 2}{20 \div 2} = \frac{7}{10}$$

Solutions

Sheet Extra Practice 3

3. Add. Estimate first.

a) $\frac{3}{5} + \frac{1}{10}$

$$\frac{6}{10} + \frac{1}{10} = \frac{7}{10}$$

b) $\frac{3}{10} + \frac{1}{2}$

$$\frac{3}{10} + \frac{5}{10} = \frac{8}{10}$$

c) $\frac{6}{8} + \frac{3}{4}$

$$\frac{6}{8} + \frac{6}{8} = \frac{12}{8}$$

d) $\frac{3}{8} + \frac{5}{2}$

$$\frac{3}{8} + \frac{20}{8} = \frac{23}{8}$$

4. Add. Estimate first.

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

$$\frac{5}{20} + \frac{6}{20} = \frac{11}{20}$$

b) $\frac{5}{6} + \frac{7}{8}$

$$\frac{20}{24} + \frac{21}{24} = \frac{41}{24}$$

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

$$\frac{8}{6} + \frac{1}{6} = \frac{9}{6}$$

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

$$\frac{28}{8} + \frac{3}{8} = \frac{31}{8}$$

solutions

5. These are fractions of the students in a class who chose their favourite sport.

Baseball	Basketball	Hockey	Snowboarding	Swimming	Tennis
$\frac{1}{4}$	$\frac{1}{9}$	$\frac{1}{3}$	$\frac{1}{6}$	$\frac{1}{18}$	$\frac{1}{12}$

Calculate the total fraction of the class that chose:

- sports played with a ball
- sports played on a court
- winter sports
- sports that use a net

a) sports with a ball

$$\frac{1}{4} + \frac{1}{9} + \frac{1}{12}$$

$$\frac{9}{36} + \frac{4}{36} + \frac{3}{36} = \frac{16}{36}$$

b) played on a court

$$\frac{1}{9} + \frac{1}{12}$$

$$\frac{4}{36} + \frac{3}{36} = \frac{7}{36}$$

c) winter sports

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

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

d) uses a net

$$\frac{1}{9} + \frac{1}{3} + \frac{1}{12}$$

$$\frac{4}{36} + \frac{12}{36} + \frac{3}{36} = \frac{19}{36}$$

6. Which sum is greater?

How do you know?

$$\frac{7}{8} + \frac{3}{4} \quad \text{or} \quad \frac{5}{6} + \frac{3}{5}$$

$$6. \quad \frac{7}{8} + \frac{3}{4} \quad \text{or} \quad \frac{5}{6} + \frac{3}{5}$$

$\frac{7}{8}$ is closer to 1

$$\frac{3}{4} > \frac{3}{5}$$

so $\frac{7}{8} + \frac{3}{4}$ is greater

or

$$\frac{7}{8} + \frac{6}{8} = \frac{13}{8}$$

$$1 \frac{5}{8}$$

$$> 1 \frac{1}{2}$$

$$\frac{25}{30} + \frac{18}{30} = \frac{43}{30}$$

$$1 \frac{13}{30}$$

$$< 1 \frac{1}{2}$$

pg 190

$$1 a) \frac{3}{5} + \frac{3}{10}$$
$$\frac{6}{10} + \frac{3}{10} = \frac{9}{10}$$

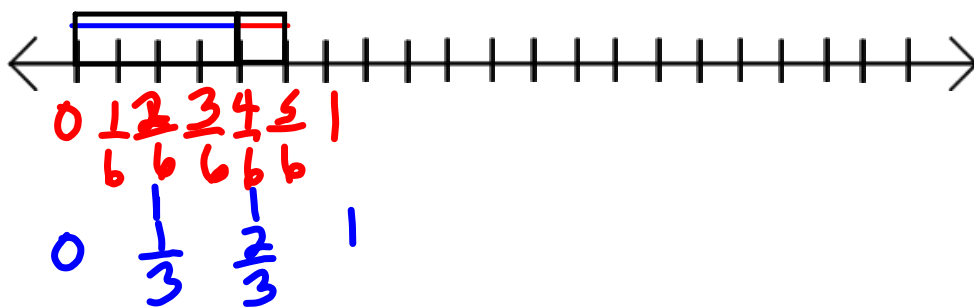
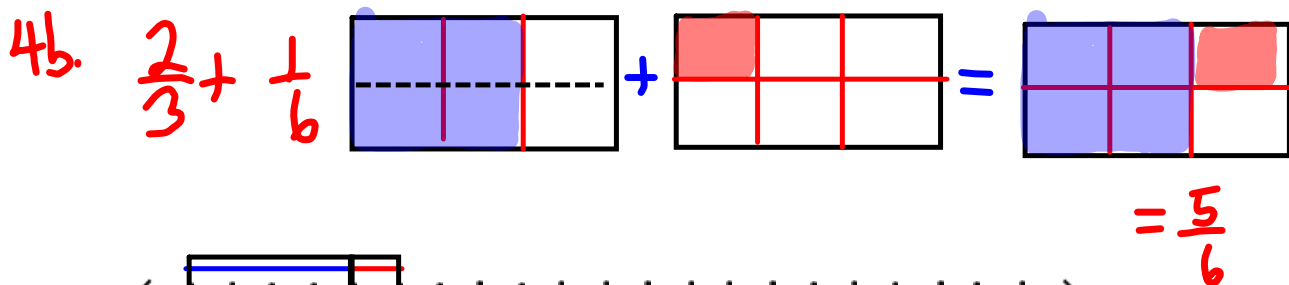
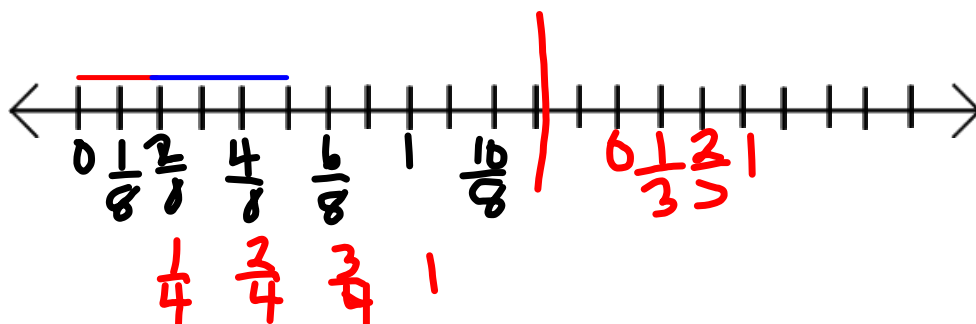
$$2. \frac{5}{12} + \frac{3}{6}$$
$$\frac{5}{12} + \frac{6}{12} = \frac{11}{12}$$

$$3 a) \frac{1}{2} + \frac{5}{12}$$
$$\frac{6}{12} + \frac{5}{12} = \frac{11}{12}$$

$$b) \frac{3}{12} + \frac{3}{4}$$
$$\frac{3}{12} + \frac{9}{12} = \frac{12}{12}$$

Orally discuss pg 190, then quiz.

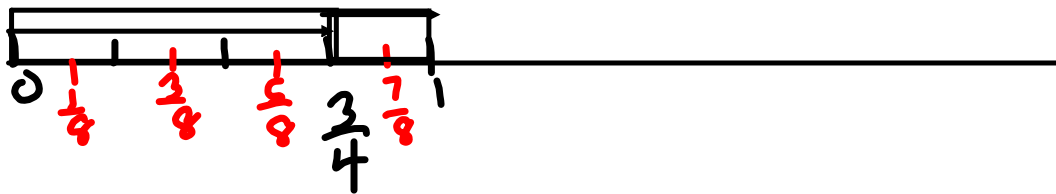
4a $\frac{2}{8} + \frac{3}{8} = \frac{5}{8}$



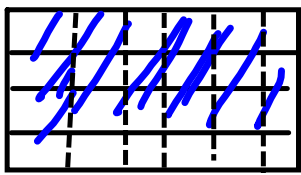
$$\frac{2}{3} + \frac{1}{6}$$

$$\frac{4}{6} + \frac{1}{6} = \frac{5}{6}$$

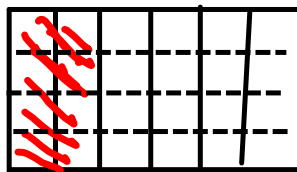
$$34 \quad \frac{3}{4} + \frac{2}{8} = 1 \quad \text{or} \quad \frac{8}{8} \quad 23$$



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

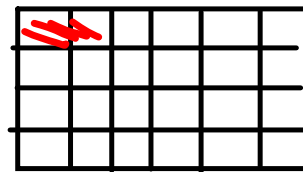
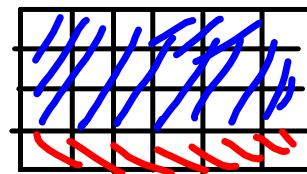


$\frac{18}{24} +$



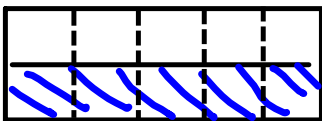
$\frac{8}{24}$

=

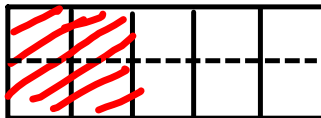


$\frac{26}{24}$ or $1\frac{2}{24}$

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

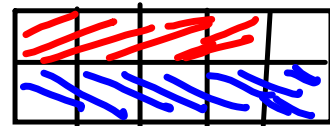


$\frac{5}{10} +$



$\frac{4}{10}$

=



$\frac{9}{10}$