

WARM UP GRADE 7



Model the following with fractions blocks or circles:

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

$\frac{14}{12} + \frac{11}{12} = \frac{25}{12} = 2\frac{1}{2}$

Add the following using common denominators:

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

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

a)  $\frac{12}{10} \times 2 = \frac{24}{20}$  and  $\frac{3}{4} \times 5 = \frac{15}{20}$

$\frac{39}{20}$   
 $= 1\frac{19}{20}$

b)  $\frac{3}{8} \times 7 = \frac{21}{56}$  and  $\frac{4}{7} \times 8 = \frac{32}{56}$

$\frac{53}{56}$

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

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.

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

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

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

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

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

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

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

Almost the whole driveway was shovelled

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

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

correct  $\frac{7}{10}$

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

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

Incorrect  $\frac{7}{12}$

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

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

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

Incorrect

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

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

$$\frac{8}{12} = \frac{4}{6} = \frac{2}{3}$$

Incorrect

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

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

Correct  $\frac{11}{18}$

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

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

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

Correct

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

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

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

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

$$c) \frac{2}{3} + \frac{5}{6} + \frac{1}{9}$$

$$\frac{12}{18} + \frac{15}{18} + \frac{2}{18} = \frac{29}{18}$$

## Sheet · Extra Practice 3

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

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

Common  
Denom. 6

12

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

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

12

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  $\frac{2}{3}$ 

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

$$\frac{19}{30}$$

## Short Quiz First

# Class Homework

## Sheet 3 # 3-6

3. Add. Estimate first.

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

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

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

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

4. Add. Estimate first.

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

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

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

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

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:

- a) sports played with a ball
- b) sports played on a court
- c) winter sports
- d) sports that use a net

a)

b)

c)

d)

6. Which sum is greater?

How do you know?

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

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