

WARM UP GRADE 7



Model the following with fractions blocks or circles:

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

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

Add the following using common denominators:

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

$\times 2$ (for 3/10) → $\frac{6}{20}$

$\times 5$ (for 3/4) → $\frac{15}{20}$

Just add top (keep bottom)

$$= \frac{6}{20} + \frac{15}{20} = \frac{21}{20}$$

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

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

$\times 7$ (for 3/8) → $\frac{21}{56}$

$\times 8$ (for 4/7) → $\frac{32}{56}$

$$= \frac{21}{56} + \frac{32}{56} = \frac{53}{56}$$

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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

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

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

$$\frac{8}{12}$$

Incorrect

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

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

Correct $\frac{11}{18}$

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

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

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

Correct

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

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

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

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

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

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

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 $\frac{1}{4}$
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

Short Quiz Tomorrow

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

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

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