



Warm Up Grade 8

Dec. 6, 2017



Copy this out

1) Reduce the following fractions

a)  $\frac{18}{21}$   $\div 3$   $\frac{6}{7}$

b)  $\frac{48}{42}$   $\div 2$   $\frac{24}{21}$   $\div 3$   $\frac{8}{7}$

2) Rewrite the following as an improper fraction  $2\frac{3}{5}$

$2 \times 5 = 10$   $10 + 3 = 13$   $\frac{13}{5}$

3) Rewrite the following as a mixed fraction in lowest terms  $\frac{39}{7}$

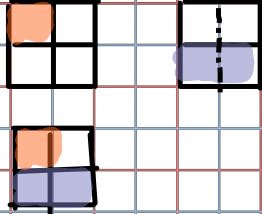
$7 \times 5 = 35$   $39 - 35 = 4$   $5\frac{4}{7}$

Sheet 151

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

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

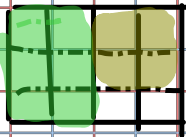
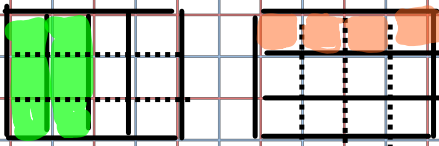
$= \frac{3}{4}$



d)  $\frac{2}{4} + \frac{1}{3}$

$\frac{6}{12} + \frac{4}{12}$

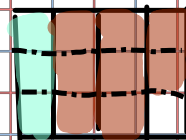
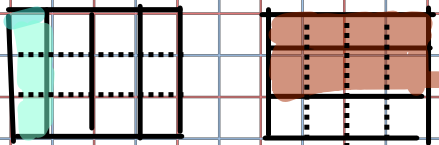
$\frac{10}{12} = \frac{5}{6}$



f)  $\frac{1}{4} + \frac{2}{3}$

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

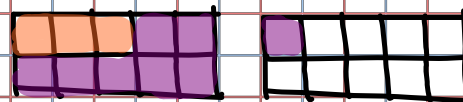
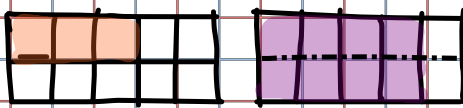
$\frac{11}{12}$



g)  $\frac{3}{10} + \frac{4}{5}$

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

$\frac{11}{10}$  or  $1\frac{1}{10}$



$$1a) \frac{3}{12} + \frac{7}{12}$$

$$\frac{10}{12} \text{ or } \frac{5}{6}$$

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

$$\frac{3}{12} + \frac{5}{12} = \frac{8}{12} \text{ or } \frac{2}{3}$$

$$e) \frac{3}{5} + \frac{1}{2}$$

$$\frac{6}{10} + \frac{5}{10} = \frac{11}{10}$$

$$h) \frac{7}{12} + \frac{3}{4} \quad \frac{3}{4} = \frac{9}{12}$$

$$\frac{7}{12} + \frac{9}{12} = \frac{16}{12}$$

$$\text{or } \frac{4}{3}$$

$$i) \frac{9}{10} + \frac{1}{3}$$

$$\frac{27}{30} + \frac{10}{30} = \frac{37}{30}$$

$$2a) \frac{7}{8} - \frac{5}{8}$$

$$\frac{2}{8} = \frac{1}{4}$$

$$c) \frac{9}{10} - \frac{9}{100}$$

$$\frac{90}{100} - \frac{9}{100} = \frac{81}{100}$$

$$e) \frac{12}{15} - \frac{3}{5}$$

$$\frac{12}{15} - \frac{9}{15} = \frac{3}{15} = \frac{1}{5}$$

$$f) \frac{5}{5} - \frac{3}{4}$$

$$1 - \frac{3}{4} = \frac{1}{4}$$

$$\text{or } \frac{4}{4} - \frac{3}{4} = \frac{1}{4}$$

$$h) \frac{9}{15} - \frac{1}{2}$$

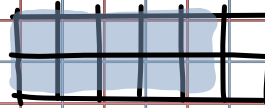
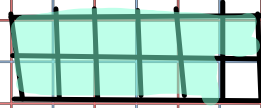
$$\frac{18}{30} - \frac{15}{30} = \frac{3}{30} = \frac{1}{10}$$

$$i) \frac{7}{25} - \frac{1}{4}$$

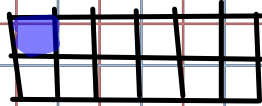
$$\frac{28}{100} - \frac{25}{100} = \frac{3}{100}$$

2 b)

$$\frac{11}{12} - \frac{5}{6}$$



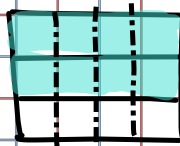
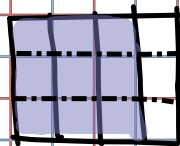
$$\frac{11}{12} - \frac{10}{12}$$



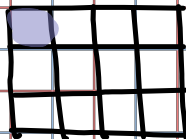
$$\frac{1}{12}$$

d)

$$\frac{3}{4} - \frac{2}{3}$$



$$\frac{9}{12} - \frac{8}{12}$$



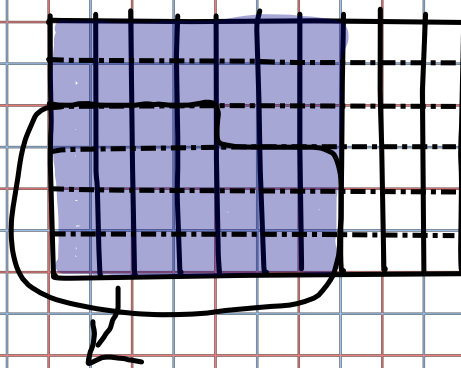
$$\frac{1}{12}$$

2a)

$$\frac{7}{10} - \frac{5}{12} \times 5$$

$$\frac{42}{60} - \frac{25}{60}$$

$$\frac{17}{60}$$



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

$$\frac{3}{30} + \frac{10}{30}$$

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

$$b) \frac{2 \times 4}{3 \times 4} - \frac{1 \times 3}{4 \times 3}$$

$$\frac{8}{12} - \frac{3}{12}$$

$$\frac{5}{12}$$

$$c) \frac{4 \times 3}{5 \times 3} + \frac{1 \times 5}{3 \times 5}$$

$$\frac{12}{15} + \frac{5}{15}$$

$$\frac{17}{15}$$

$$d) \frac{3 \times 5}{4 \times 5} - \frac{7 \times 2}{10 \times 2}$$

$$\frac{15}{20} - \frac{14}{20}$$

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

$$e) \frac{3 \times 2}{5 \times 2} + \frac{1 \times 5}{2 \times 5}$$

$$\frac{6}{10} + \frac{5}{10}$$

$$\frac{11}{10}$$

$$f) \frac{9 \times 4}{10 \times 4} - \frac{5 \times 5}{8 \times 5}$$

$$\frac{36}{40} - \frac{25}{40}$$

$$\frac{11}{40}$$

$$\frac{9}{10} - \frac{5}{8}$$

$$\frac{72}{80} - \frac{50}{80} = \frac{22}{80}$$

$$= \frac{11}{40}$$

Sheet 151

4 a)  $\frac{4}{15} + \frac{1}{15} + \frac{7}{15}$

$$\frac{12}{15} = \frac{4}{5}$$

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

$$\frac{15}{30} + \frac{20}{30} + \frac{18}{30} = \frac{53}{30}$$

$$\frac{2}{3} = \frac{20}{30}$$

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

$$\frac{40}{60} + \frac{15}{60} + \frac{18}{60} = \frac{73}{60}$$

$$\frac{2}{3} = \frac{40}{60}$$

$$\frac{3}{4} = \frac{18}{24}$$

d)  $\frac{3}{4} + \frac{5}{12} + \frac{1}{2}$

$$\begin{aligned} \frac{18}{24} + \frac{10}{24} + \frac{12}{24} &= \frac{40}{24} \\ &= \frac{20}{12} \\ &= \frac{10}{6} \\ &= \frac{5}{3} \end{aligned}$$

$$\begin{aligned} \frac{3}{4} + \frac{5}{12} + \frac{1}{2} \\ \frac{9}{12} + \frac{5}{12} + \frac{6}{12} \\ \frac{20}{12} \\ \frac{5}{3} \end{aligned}$$

5.  $\frac{1}{2} + \frac{1}{3} + \frac{1}{4}$

$$\frac{6}{12} + \frac{4}{12} + \frac{3}{12} = \frac{13}{12}$$

or  $1\frac{1}{12}$  hours doing laundry  
or 1 hr 5 min

6. Doug

$$\frac{1}{4} + \frac{1}{8}$$

$$\frac{2}{8} + \frac{1}{8} = \frac{3}{8} = \frac{9}{24}$$

Ann

$$\frac{1}{6} + \frac{1}{6} = \frac{2}{6} = \frac{8}{24}$$

Doug ate  $\frac{1}{24}$  more of the pie.

You try

a)  $\frac{2}{3} + \frac{4}{9}$

No modelling

b)  $\frac{5}{8} + \frac{1}{6}$

c)  $\frac{9}{10} - \frac{2}{3}$

d)  $\frac{2}{9} + \frac{5}{6}$

You try

$$a) \frac{2}{3} + \frac{4}{9}$$

$$\frac{6}{9} + \frac{4}{9} = \frac{10}{9}$$

$$b) \frac{5}{8} + \frac{1}{6}$$

$$\frac{15}{24} + \frac{4}{24} = \frac{19}{24}$$

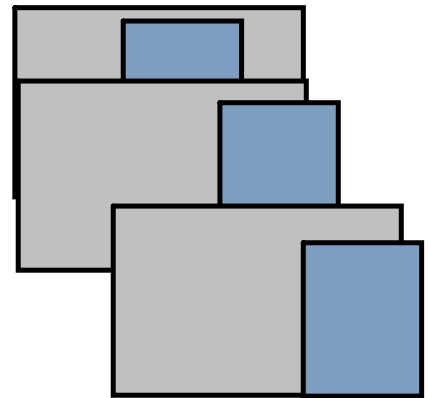
$$d) \frac{2}{9} + \frac{5}{6}$$

$$\frac{4}{18} + \frac{15}{18} = \frac{19}{18}$$

No modelling

$$c) \frac{9}{10} - \frac{2}{3}$$

$$\frac{27}{30} - \frac{20}{30} = \frac{7}{30}$$



Homework

Sheet 151 #1-6  
 Draw #1 b, d, f, g  
 #2 b, d, g



# Class/Homework

Sheet 151 # 1 to #6 Last day

(only model #1bdfg, #2bdg)

## Show all work

Review of Grade 7 (GR 8 Fractions Day 3.5).docx

Grade 8 Day 3.5(Assignment).pdf.pdf

→ 25% Like ÷ by 4  
→ 10% Like ÷ by 10

→ 50% Like ÷ by 2  
→ 1% Like ÷ by 100

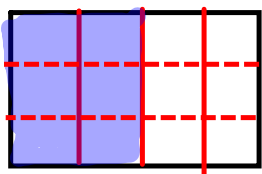
20% find 10% of # → like ÷ by 10  
                                x2  
                                → 20% of #          ↓ x2

Ex) 20% of 80

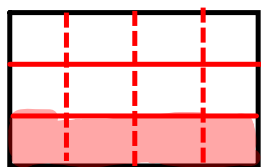
10% of 80 = 8  
     x2                      x2

20% of 80 = 16

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



+

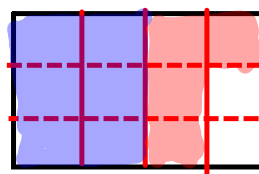


$$\frac{6}{12} +$$

$$\frac{4}{12}$$

=

$$\frac{10}{12}$$



## Sheet-Daffy Definitions

1.  $\frac{15}{2} = 7\frac{1}{2}$

2.  $\frac{8}{3} = 2\frac{2}{3}$

3.  $\frac{21}{5} = 4\frac{1}{5}$

4)  $\frac{9}{3} = 3$

5)  $\frac{14}{3} = 4\frac{2}{3}$

6)  $\frac{10}{2} = 5$

7)  $\frac{22}{7} = 3\frac{1}{7}$

8)  $\frac{36}{8} = 4\frac{4}{8}$  or  $4\frac{1}{2}$

9)  $\frac{13}{9} = 1\frac{4}{9}$

10)  $\frac{22}{6} = 3\frac{4}{6}$  or  $3\frac{2}{3}$

11)  $\frac{72}{8} = 9$

12)  $\frac{100}{50} = 2$

13)  $\frac{43}{7} = 6\frac{1}{7}$

14)  $\frac{34}{5} = 6\frac{4}{5}$

15)  $\frac{33}{10} = 3\frac{3}{10}$

16)  $\frac{22}{16} = 1\frac{6}{16}$  or  $1\frac{3}{8}$

17)  $\frac{42}{15} = 2\frac{12}{15}$  or  $2\frac{4}{5}$

18)  $\frac{31}{10} = 3\frac{1}{10}$

## Attachments

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Grade 8 Sheet 151 Adding\_Subtracting Fractions.pdf

Review of Grade 7 (GR 8 Fractions Day 3.5).docx

Grade 8 Day 3.5(Assignment)pdf.pdf