6th Grade
Oct 8, 2020

Please get out yesterday's WS on adding and subtracting mixed numbers and your video notes HW.

Today we will:
-review WS and video notes
-do some examples together
-work on WS on borrowing

HOMEWORK:

Complete WS

Video notes

THQ due TOMORROW Oct 9

ALEKS-60 minutes

HOMEWORK

Name _____

Unit ____ Lesson _____ Due Date _____

1.

Answer: $10\frac{3}{4}$

$3\frac{2}{16} + 7\frac{5}{8} =$

$3\frac{2}{16} = 3\frac{2}{16}$

$+7\frac{5}{8} = 7\frac{10}{16}$

$10\frac{12}{16} \div \frac{4}{4} = 10\frac{3}{4}$

2.

Answer: $12\frac{1}{11}$

$6\frac{10}{11} + 5\frac{8}{44} =$

$6\frac{10}{11} \times \frac{4}{4} = 6\frac{40}{44}$

$+5\frac{8}{44}$ $+5\frac{8}{44}$

$11\frac{48}{44} = 1\frac{4}{44} \div \frac{4}{4} = 1\frac{1}{11}$

$11 + 1\frac{1}{11} = 12\frac{1}{11}$

3.

Answer: $9\frac{1}{15}$

$2\frac{3}{5} + 6\frac{7}{15} =$

$2\frac{3}{5} \times \frac{3}{3} = 2\frac{9}{15}$

$+6\frac{7}{15}$ $+6\frac{7}{15}$

$8\frac{16}{15}$ $\frac{16}{15} = 1\frac{1}{15}$

$8 + 1\frac{1}{15} = 9\frac{1}{15}$

4.

Answer: $6\frac{3}{16}$

$8\frac{1}{4} - 2\frac{1}{16} =$

$8\frac{1}{4} \times \frac{4}{4} = 8\frac{4}{16}$

$-2\frac{1}{16}$ $-2\frac{1}{16}$

$6\frac{3}{16}$

5.

Answer: $4\frac{1}{6}$

$6\frac{2}{3} - 2\frac{2}{4} =$

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

$-2\frac{2}{4} \times \frac{3}{3} = -2\frac{6}{12}$

$4\frac{2}{12} \div \frac{2}{2} = 4\frac{1}{6}$

6.

Answer: $2\frac{11}{36}$

$6\frac{3}{6} - 4\frac{7}{36} =$

$6\frac{3}{6} \times \frac{6}{6} = 6\frac{18}{36}$

$-4\frac{7}{36}$ $-4\frac{7}{36}$

$2\frac{11}{36}$

Name _____

Unit ____ Lesson _____ Due Date _____

SUBTRACT FRACTIONS WITH BORROWING

One Way

STEP 1:

Use ___Improper___ ___fractions___ .

STEP 2:

Then, ___subtract___

like we already learned.

STEP 3:

Write in ___simplest___ ___form___ .

$$LCD = 12$$

$$4\overset{+2}{\underset{\times 3}{}} = \frac{14}{3} \times \frac{4}{4} = \frac{56}{12}$$

$$-2\overset{+3}{\underset{\times 4}{}} = -\frac{11}{4} \times \frac{3}{3} = -\frac{33}{12}$$

$$\frac{23}{12} = \boxed{1\frac{11}{12}}$$

$$12\overline{)23} \quad 1\frac{11}{12}$$
$$\underline{12}$$
$$11$$

Another Way

STEP 1:

___Rename___ the first fraction.

STEP 2:

Use what you know about a

___whole___ to create more parts,

and then subtract.

STEP 3:

Write in ___Simplest___ ___form___ .

$$1 = \frac{8}{8} \quad \frac{2}{8} \quad \frac{10}{8}$$

$$3\overset{+2}{\underset{8}{}} \rightarrow 3 \boxed{\frac{10}{8}} \quad \text{Rename } 4\frac{2}{8} \text{ as } 3\frac{10}{8}.$$

$$-2\frac{5}{8} \rightarrow -2\frac{5}{8}$$

$$\boxed{1} \boxed{\frac{5}{8}} \quad \text{Subtract.}$$

So, $4\frac{1}{4} - 2\frac{5}{8} = \boxed{1}\boxed{\frac{5}{8}}$.

$$4\frac{2}{8} - 2\frac{5}{8}$$

WE DO:

$$5\frac{1}{8} - 2\frac{5}{24} \qquad \text{LCD} = 24$$

$$5^{+1}_{\times 8} = \frac{41}{8} \times \frac{3}{3} = \frac{123}{24}$$

$$- 2^{+5}_{\times 24} = \frac{53}{24} \times \frac{1}{1} = -\frac{53}{24}$$

$$\frac{70}{24} = 2\frac{22 \div 2}{24 \div 2}$$

$$= 2\frac{11}{12}$$

$$24\overline{)70} \quad \frac{2}{}$$
$$\underline{-48}$$
$$22$$

$$\frac{5}{5} + \frac{2}{5} = \frac{7}{5}$$

$$4\frac{2}{5} \rightarrow 4\frac{7}{5}$$

$$- 3\frac{4}{5} \rightarrow - 3\frac{4}{5}$$

$$1\frac{3}{5}$$

$$2\frac{2}{7} = 7\frac{9}{7}$$

YOU DO:

$$9\frac{3}{10} - 5\frac{7}{10}$$

$$9^{+3}_{\times 10} = \frac{93}{10}$$

$$5^{+7}_{\times 10} = \frac{57}{10}$$

$$\frac{36}{10} = 3\frac{6}{10} \div \frac{2}{2} = 3\frac{3}{5}$$

$$\frac{7}{7} + \frac{2}{7} = \frac{9}{7}$$

$$3\frac{2}{7} - 1\frac{4}{7}$$

$$3\frac{2}{7} = 2\frac{9}{7}$$

$$- 1\frac{4}{7} \qquad - 1\frac{4}{7}$$

$$1\frac{5}{7}$$

$$6 \quad \xrightarrow{} \quad \frac{10}{10} + \frac{4}{4} = \frac{14}{10}$$

$$7\frac{4}{10} = 7\frac{\overset{14}{4}}{10} = 6\frac{14}{10}$$

$$-3\frac{4}{5} \times \frac{2}{2} = -3\frac{8}{10} \qquad -3\frac{8}{10}$$

$$3\frac{6}{10} \div \frac{2}{2}$$

$$3\frac{3}{5}$$

$$= 3\frac{3}{5}$$

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

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

$$-1\frac{2}{3} = 1\frac{4}{6} = 1\frac{4}{6}$$

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

$$3$$
$$4 \frac{8}{8}$$
$$- 1 \frac{1}{8}$$
$$2 \frac{7}{8}$$

TITLE:

Fractions

Math — Chapter 4

Date	Lesson	Topic/Assignment
9/28	-	Add Fractions Like Denom. Video Notes
9/29	-	Maze HW
9/29	-	Classwork Practice-Riddle WS
9/30	-	Add Fractions Unlike Denom Video Notes
9/30	-	Practice WS
10/1	-	Practice WS2
10/2	-	Subtract Fractions Like Denom Video Notes
10/2	-	Practice WS
10/5	-	Examples and WS on Subtract Unlike Denom
10/6	-	Add and Subtract Mixed Numbers Video Notes
10/7	-	HW- Practice WS
10/7	-	HW- Practice WS #2
10/8	-	Subtract with Borrowing Video Notes and Examples
10/8	-	HW- Practice WS

More examples: Write on the next blank page in your binder as part of your notes.

1. $2\frac{1}{8}$
$-1\frac{7}{8}$

2. $12\frac{1}{4}$
$-5\frac{2}{3}$

3. $8\frac{1}{6} - 3\frac{5}{6} = $ _____

6th Grade
Homework

Complete WS

Name _____

Unit ____ Lesson _____ Due Date _____

Independent Practice

Estimate, then subtract. Write each difference in simplest form.

2. $4\frac{3}{8}$
$-1\frac{5}{8}$
_____

3. $3\frac{1}{6}$
$-1\frac{1}{3}$
_____

4. $5\frac{1}{4}$
$-4\frac{1}{2}$
_____

5. $7\frac{1}{2}$
$-3\frac{4}{5}$
_____

6. 4
$-1\frac{1}{8}$
_____

7. 12
$-5\frac{1}{6}$
_____

8. $7\frac{2}{7} - 6\frac{4}{7} =$ _____

9. $9\frac{3}{10} - 5\frac{7}{10} =$ _____

10. $10\frac{1}{3} - 3\frac{2}{3} =$ _____

11. $18 - 9\frac{1}{4} =$ _____

12. $13 - 4\frac{1}{3} =$ _____

13. $5\frac{1}{4} - 1\frac{1}{2} =$ _____