

7th Grade
Nov 3, 2020

Please get out your homework from yesterday.

Today we will:
-review HW
-do some examples with fraction operations
-begin HW

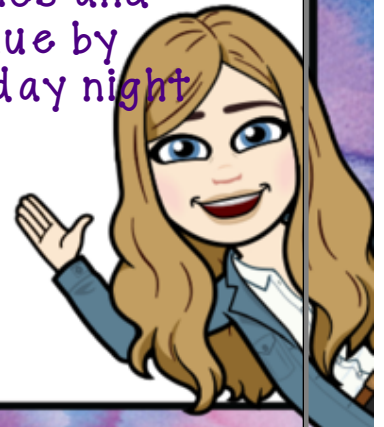


HOMEWORK:

Mystery Picture WS

Test and binder check pushed back to next Tuesday

ALEKS-5 topics and 60 minutes due by 11:59pm Monday night



Name

Key

#

Date

7th Grade MATH WORKSHEET

Ch3 Lessons 5 and 6: Adding/Subtracting Fractions

Complete the work inside the boxes under the problem. Circle your answer.

1.

$$8\frac{1}{2} + 3\frac{4}{5}$$

Find LCD

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

$$= 11\frac{13}{10}$$

$$= \boxed{12\frac{3}{10}}$$

2.

$$-10\frac{2}{3} + 9\frac{7}{12}$$

$$= -10\frac{8}{12} + 9\frac{7}{12}$$

$$= \boxed{-1\frac{1}{12}}$$

3.

$$16\frac{5}{6} - 12\frac{1}{3}$$

$$= 16\frac{15}{18} - 12\frac{6}{18}$$

$$= 4\frac{9}{18}$$

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

4.

$$-4\frac{1}{9} - 7\frac{2}{3}$$

$$= -4\frac{1}{9} - 7\frac{6}{9}$$

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$$= -4\frac{1}{9} + (-7\frac{6}{9})$$

$$= \boxed{-11\frac{7}{9}}$$

5.

$$-\frac{5}{6} + 8\frac{1}{4}$$

$$= -\frac{10}{12} + 8\frac{3}{12}$$

$$8\frac{3}{12} \rightarrow 7\frac{15}{12}$$

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

$$= \boxed{7\frac{5}{12}}$$

6.

$$\frac{9}{16} + 3\frac{5}{6}$$

$$= \frac{27}{48} + 3\frac{40}{48}$$

$$= 3\frac{67}{48}$$

$$= \boxed{4\frac{19}{48}}$$

7.

$$\begin{aligned}
 & -5\frac{3}{5} + (-7\frac{1}{6}) \\
 & \quad \downarrow \\
 & = -5\frac{18}{30} + (-7\frac{5}{30}) \\
 & = \boxed{-12\frac{23}{30}}
 \end{aligned}$$

8.

$$\begin{aligned}
 & -10\frac{1}{2} - 6\frac{5}{7} \\
 & \quad \downarrow \\
 & = -10\frac{7}{14} - 6\frac{10}{14} \\
 & = -16\frac{17}{14} \\
 & = \boxed{-17\frac{3}{14}}
 \end{aligned}$$

9.

Sybrina wants to make a 17-inch necklace with a $\frac{3}{4}$ -inch bead, a $1\frac{1}{2}$ -inch bead, and another $\frac{3}{4}$ -inch bead on it. What is the length of the remaining part of the necklace? (Example 4)

$$\begin{aligned}
 & \frac{3}{4} + 1\frac{1}{2} + \frac{3}{4} \\
 & = \frac{3}{4} + 1\frac{2}{4} + \frac{3}{4} \\
 & = 1\frac{8}{4} \\
 & = 3
 \end{aligned}$$

$$\begin{aligned}
 & 17 - 3 = \\
 & \boxed{14 \text{ inches left}}
 \end{aligned}$$

10.

Kenzie is making three desserts for a party. The recipes call for $\frac{2}{3}$ cup sugar, $1\frac{5}{6}$ cups sugar, and $2\frac{3}{4}$ cups sugar. If she has 6 cups of sugar, how much sugar will she have left over?

$$\begin{aligned}
 & \frac{2}{3} + 1\frac{5}{6} + 2\frac{3}{4} \\
 & \quad \downarrow \quad \downarrow \quad \downarrow \\
 & \frac{8}{12} + 1\frac{10}{12} + 2\frac{9}{12} = 3\frac{27}{12} \\
 & = 5\frac{3}{12} \\
 & = 5\frac{1}{4}
 \end{aligned}$$

$$6 - 5\frac{1}{4} = \boxed{\frac{3}{4} \text{ cup}}$$

11.

The length of a page in a yearbook is 10 inches. The top margin is $\frac{1}{2}$ inch, and the bottom margin is $\frac{3}{4}$ inch. What is the length of the page inside the margins?

$$\begin{aligned}
 & \frac{1}{2} + \frac{3}{4} \\
 & \quad \downarrow \\
 & \frac{2}{4} + \frac{3}{4} = \frac{5}{4} = 1\frac{1}{4}
 \end{aligned}$$

$$10 - 1\frac{1}{4} = 9\frac{4}{4} - 1\frac{1}{4}$$

$$= \boxed{8\frac{3}{4} \text{ inches}}$$

12.

In a college dormitory, $\frac{1}{10}$ of the residents are juniors and $\frac{2}{5}$ of the residents are sophomores. What fraction of the students at the dormitory are juniors and sophomores?

$$\begin{aligned}
 & \frac{1}{10} + \frac{2}{5} \\
 & \quad \downarrow \quad \downarrow \\
 & \frac{1}{10} + \frac{4}{10} = \frac{5}{10}
 \end{aligned}$$

$= \frac{1}{2}$ are juniors and sophomores

More examples to write in your binder:



Name: _____

FRACTIONS MATH MYSTERY PICTURE

Directions: Solve each problem and color the matching answer the specified color.

PROBLEM	ANSWER	COLOR
$\frac{1}{2} + \frac{2}{5}$		yellow
$6\frac{3}{4} + 3\frac{1}{8}$		black
$\frac{7}{12} - \frac{1}{3}$		yellow
$12\frac{7}{10} - 7\frac{2}{5}$		red
$\frac{1}{3} \times \frac{2}{5}$		yellow
$2\frac{4}{5} \times 3\frac{1}{8}$		white
$6 \div \frac{1}{5}$		yellow
$\frac{1}{6} \div 4$		black
Tiffany ate $\frac{1}{4}$ of a pizza. If there were 16 slices of pizza to begin with, how many slices did Tiffany eat?		yellow
Katelyn ate $\frac{1}{3}$ of an apple pie, and Chad ate $\frac{3}{8}$ of the same pie. What fraction of the pie was eaten?		red
Vince has $\frac{1}{2}$ ton of gravel to spread equally in 8 square yards for his driveway. How many tons of gravel will be spread in each square yard?		yellow
Candice spent $3\frac{4}{5}$ hours, and Shane spent $2\frac{1}{10}$ hours at track practice over the weekend. How many more hours did Candice spend than Shane at track practice?		black

Name: _____

FRACTIONS

MATH MYSTERY PICTURE

$5\frac{3}{10}$	$\frac{17}{24}$	$\frac{2}{15}$	30	$\frac{1}{4}$	$\frac{1}{16}$	$\frac{9}{10}$	$\frac{2}{15}$	$5\frac{3}{10}$	$\frac{17}{24}$
$\frac{17}{24}$	30	4	$\frac{9}{10}$	30	$\frac{2}{15}$	$\frac{1}{16}$	$\frac{1}{4}$	$\frac{1}{16}$	$5\frac{3}{10}$
$\frac{9}{10}$	$\frac{1}{16}$	$\frac{1}{4}$	$\frac{2}{15}$	$\frac{1}{16}$	4	$\frac{9}{10}$	$\frac{2}{15}$	4	$\frac{9}{10}$
$9\frac{7}{8}$	$1\frac{7}{10}$	$9\frac{7}{8}$	$8\frac{3}{4}$	$1\frac{7}{10}$	$9\frac{7}{8}$	$1\frac{7}{10}$	$9\frac{7}{8}$	$8\frac{3}{4}$	$1\frac{7}{10}$
$\frac{1}{24}$	$1\frac{7}{10}$	$8\frac{3}{4}$	$8\frac{3}{4}$	$\frac{1}{24}$	4	$\frac{1}{4}$	$1\frac{7}{10}$	$8\frac{3}{4}$	$\frac{1}{24}$
$\frac{9}{10}$	$\frac{1}{4}$	$9\frac{7}{8}$	$\frac{1}{24}$	30	$\frac{1}{16}$	$\frac{2}{15}$	$9\frac{7}{8}$	$\frac{1}{24}$	$\frac{9}{10}$
$\frac{1}{4}$	4	$\frac{2}{15}$	30	$\frac{1}{16}$	$\frac{9}{10}$	30	4	$\frac{1}{16}$	$\frac{1}{4}$
$\frac{2}{15}$	$\frac{1}{16}$	$9\frac{7}{8}$	$\frac{1}{16}$	$\frac{1}{4}$	4	$\frac{1}{16}$	$1\frac{7}{10}$	$\frac{2}{15}$	30
$5\frac{3}{10}$	$\frac{1}{4}$	30	$1\frac{7}{10}$	$\frac{1}{24}$	$1\frac{7}{10}$	$9\frac{7}{8}$	$\frac{9}{10}$	4	$\frac{17}{24}$
$\frac{17}{24}$	$5\frac{3}{10}$	4	$\frac{9}{10}$	$\frac{2}{15}$	$\frac{1}{4}$	4	30	$\frac{17}{24}$	$5\frac{3}{10}$

