Name: _____ Period: _____ Date: _____

Adding and Subtracting Fractions Assignment

Find each sum or difference.

1. $\frac{1}{3}+\frac{5}{6}$

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

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

4. $\frac{n}{3}+\frac{n}{5}$

5. $\frac{5}{8}-\frac{11}{12}$

6. $\frac{1}{7}+13$

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Adding and Subtracting Fractions Assignment

Find each sum or difference using mental math.

1. $\frac{1}{16} + \frac{7}{16} + \frac{8}{16}$

2. $\frac{4}{20} - \frac{13}{20} - \frac{3}{20}$

3. $\frac{3}{12} + \frac{9}{12} + \frac{5}{12} + \frac{7}{12}$

4. $\frac{11}{25} - \frac{1}{25} - \frac{2}{25} - \frac{3}{25}$

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Adding and Subtracting Fractions Assignment

Answers

Find each sum or difference.

1. $\frac{1}{3}+\frac{5}{6}$

LCM of 3 and 6 is 6.

$$\frac{1}{3}+\frac{5}{6}=\frac{1(2)+5(1)}{6}$$

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

$$\frac{1}{3}+\frac{5}{6}=\frac{7}{6}$$

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

LCM of 8 and 4 is 8.

$$\frac{7}{8}-\frac{1}{4}=\frac{7(1)-2(1)}{8}$$

$$\frac{7-2}{8}=\frac{5}{8}$$

$$\frac{7}{8}-\frac{1}{4}=\frac{5}{8}$$

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

LCM of 3 and 4 is $3\times4=12$.

$$\frac{1}{3}-\frac{1}{4}=\frac{1(4)-1(3)}{12}$$

$$\frac{4-3}{12}=\frac{1}{12}$$

$$\frac{1}{3}-\frac{1}{4}=\frac{1}{12}$$

4. $\frac{n}{3}+\frac{n}{5}$

LCM of 3 and 5 is $3\times5=15$.

$$\frac{n}{3}+\frac{n}{5}=\frac{n(5)+n(3)}{15}$$

$$\frac{5n+3n}{15}=\frac{8n}{15}$$

$$\frac{n}{3}+\frac{n}{5}=\frac{8n}{15}$$

5. $\frac{5}{8}-\frac{11}{12}$

LCM of 8 and 12 is 24.

$$\frac{5}{8}-\frac{11}{12}=\frac{5(3)-11(2)}{24}$$

$$\frac{15-22}{24}=\frac{-7}{24}$$

$$\frac{5}{8}-\frac{11}{12}=\frac{-7}{24}$$

6. $\frac{1}{7}+13$

LCM of 7 and 1 is 7.

$$\frac{1}{7}+13=\frac{1(1)+13(7)}{7}$$

$$\frac{1+91}{7}=\frac{92}{7}$$

$$\frac{1}{7}+13=\frac{92}{7}$$

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Adding and Subtracting Fractions Assignment

Find each sum or difference using mental math.

1. $\frac{1}{16}+\frac{7}{16}+\frac{8}{16}$

Add all the numerators.

$1+7+8=16$

$\rightarrow \frac{16}{16}=1$

$\frac{1}{16}+\frac{7}{16}+\frac{8}{16}=1$

2. $\frac{4}{20}-\frac{13}{20}-\frac{3}{20}$

Subtract all the numerators.

$4-13-3=4-16=-12$

$\rightarrow \frac{-12}{20}=-\frac{3}{5}$

$\frac{4}{20}-\frac{13}{20}-\frac{3}{20}=-\frac{3}{5}$

3. $\frac{3}{12}+\frac{9}{12}+\frac{5}{12}+\frac{7}{12}$

Add all the numerators.

$3+9+5+7=24$

$\rightarrow \frac{24}{12}=2$

$\frac{3}{12}+\frac{9}{12}+\frac{5}{12}+\frac{7}{12}=2$

4. $\frac{11}{25}-\frac{1}{25}-\frac{2}{25}-\frac{3}{25}$

Subtract all the numerators.

$11-1-2-3=11-6=5$

$\rightarrow \frac{5}{25}=\frac{1}{5}$

$\frac{11}{25}-\frac{1}{25}-\frac{2}{25}-\frac{3}{25}=\frac{1}{5}$