(Front)

3.3 worksheet

Name KEY

Adding and Subtracting Fractions with Unlike Denominators

Evaluate each expression.

1) $\frac{4}{5}\times\frac{7}{7} + \frac{4}{7}\times\frac{5}{5} = \frac{28}{35} + \frac{20}{35}$

$= \boxed{\frac{48}{35}}$

2) $\frac{5}{4} + \frac{3}{4} = \frac{8}{4} = \boxed{2}$

3) $\frac{1}{2}\times\frac{4}{4} + \frac{11}{8} = \frac{4}{8} + \frac{11}{8}$

$= \boxed{\frac{15}{8}}$

4) $\frac{5}{4}\times\frac{3}{3} + \frac{4}{3}\times\frac{4}{4} = \frac{15}{12} + \frac{16}{12}$

$= \boxed{\frac{31}{12}}$

5) $\frac{1}{5}\times\frac{3}{3} + \frac{1}{3}\times\frac{5}{5} = \frac{3}{15} + \frac{5}{15}$

$= \boxed{\frac{8}{15}}$

6) $\frac{8}{7}\times\frac{3}{3} + \frac{4}{3}\times\frac{7}{7} = \frac{24}{21} + \frac{28}{21}$

$= \boxed{\frac{52}{21}}$

Find each difference.

7) $\frac{5}{3}\times\frac{5}{5} - \frac{2}{5}\times\frac{3}{3} = \frac{25}{15} - \frac{6}{15}$

$= \boxed{\frac{19}{15}}$

8) $\frac{7}{4}\times\frac{7}{7} - \frac{6}{7}\times\frac{4}{4} = \frac{49}{28} - \frac{24}{28}$

$= \boxed{\frac{25}{28}}$

9) $\frac{7}{6} - \frac{1}{3}\times\frac{2}{2} = \frac{7}{6} - \frac{2}{6}$

$= \boxed{\frac{5}{6}}$

10) $\frac{4}{3}\times\frac{7}{7} - \frac{6}{7}\times\frac{3}{3} = \frac{28}{21} - \frac{18}{21}$

$= \boxed{\frac{10}{21}}$

11) $\frac{5}{3}\times\frac{2}{2} - \frac{1}{2}\times\frac{3}{3} = \frac{10}{6} - \frac{3}{6}$

$= \boxed{\frac{7}{6}}$

12) $\frac{2}{1}\times\frac{6}{6} - \frac{1}{6} = \frac{12}{6} - \frac{1}{6}$

$= \boxed{\frac{11}{6}}$

turn over

- Back of Sheet -

Name KEY

Adding and Subtracting Fractions

Date _____

Evaluate each expression.

1) $\frac{1}{1}\overset{\times 6}{-}\left(-\frac{11}{6}\right)\overset{+}{} = \frac{6}{6}+\frac{11}{6}$

$= \boxed{\frac{17}{6}}$

2) $\frac{3}{2}\overset{\times 3}{-}\frac{1}{6} = \frac{9}{6}-\frac{1}{6}$

reduce $= \frac{8}{6}\overset{\div 2}{\div 2} = \boxed{\frac{4}{3}}$

3) $\left(-\frac{1}{7}\right)\overset{\times 2}{-}\left(-\frac{1}{2}\right)\overset{+}{\times 7} = \frac{-2}{14}+\frac{7}{14}$

$= \boxed{\frac{5}{14}}$

4) $\frac{(-2)}{1}\overset{\times 7}{-}\frac{5}{7} = \frac{-14}{7}-\frac{5}{7}$

$= \boxed{\frac{-19}{7}}$

5) $\frac{8}{5}\overset{\times 3}{+}\left(-\frac{1}{3}\right)\overset{\times 5}{\times 5} = \frac{24}{15}-\frac{5}{15}$

$= \boxed{\frac{19}{15}}$

6) $\frac{1}{1}\overset{\times 5}{-}\left(-\frac{2}{5}\right)\overset{+}{} = \frac{5}{5}+\frac{2}{5}$

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

7) $\frac{3}{1}\overset{\times 5}{-}\frac{2}{5} = \frac{15}{5}-\frac{2}{5}$

$= \boxed{\frac{13}{5}}$

8) $\frac{12}{7}-\frac{10}{7} = \boxed{\frac{2}{7}}$

9) $\frac{1}{6}+\left(-\frac{5}{3}\right)\overset{\times 2}{\times 2} = \frac{1}{6}-\frac{10}{6}$

reduce $= \frac{-9}{6}\overset{\div 3}{\div 3} = \boxed{\frac{-3}{2}}$

10) $\frac{(-2)}{1}\overset{\times 2}{+}\frac{3}{2} = \frac{-4}{2}+\frac{3}{2}$

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