6th Math – Week of May 11th – 15th

Assignment #3: Problems 2-12, evens. Also do "Problem Solving," #23. (14-22 are E.C.)

Subtract Fractions

Name _____

Date _____

Subtract: $\frac{5}{6} - \frac{2}{8}$

Find the LCD of the fractions.

Multiples of 6: 6, 12, 18, **24**, . . .
Multiples of 8: 8, 16, **24**, . . .

The LCD is 24.

Rename each fraction.

$\frac{5}{6} = \frac{5 \times 4}{6 \times 4} = \frac{20}{24}$

$-\frac{2}{8} = \frac{2 \times 3}{8 \times 3} = \frac{6}{24}$

Subtract. Then simplify.

$\frac{20}{24}$

$-\frac{6}{24}$

$\frac{14}{24} = \frac{7}{12}$

Find the LCD for each group of fractions below, then add. Be sure to simplify your answer.

1. $\frac{5}{8}$
$-\frac{1}{8}$

2. $\frac{2}{3}$
$-\frac{1}{9}$

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

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

5. $\frac{1}{2}$
$-\frac{3}{16}$

6. $\frac{1}{6}$
$-\frac{1}{9}$

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

8. $\frac{11}{12}$
$-\frac{7}{12}$

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

10. $\frac{4}{5}$
$-\frac{4}{10}$

11. $\frac{3}{4} - \frac{4}{9} =$ _____

12. $\frac{5}{6} - \frac{4}{7} =$ _____

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

EXTRA CREDIT: Solve for the variables in the equations below.

14. $n + \frac{4}{5} = \frac{7}{8}$

15. $z - \frac{2}{7} = \frac{3}{14}$

16. $\frac{5}{9} = y + \frac{1}{3}$

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17. $\frac{1}{4} = x - \frac{1}{16}$

18. $b - 2\frac{1}{3} = 2\frac{2}{3}$

19. $h - 0 = \frac{1}{8}$

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20. $t - \frac{8}{9} = 8\frac{1}{9}$

21. $\frac{3}{8} = a + \frac{5}{24}$

22. $\frac{4}{7} = c + \frac{11}{21}$

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Problem Solving

23. Patty lives $\frac{5}{8}$ mile from school. Frank lives $\frac{3}{5}$ mile from school. How much farther from school does Patty live?

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