Perceptions Blue
Unit 4
Pre/Post-Test

Name: _____

Answer the questions to the best of your ability.

Add or Subtract - Simplify Your Answers

1. $\frac{2}{5} + \frac{2}{3} =$

2. $\frac{3}{7} + \frac{4}{6} =$

3. $\frac{4}{5} - \frac{3}{8} =$

4. $\frac{1}{2} - \frac{7}{15} =$

5. $\frac{3}{4} + \frac{6}{8} + \frac{1}{2} =$

6. Draw an example of $2\frac{1}{3}$

What is the Lowest Common Denominator (LCD) for each set of fractions?

7. $\frac{4}{6}$ $\frac{3}{4}$

The LCD is _____

8. $\frac{4}{15}$ $\frac{2}{3}$

The LCD is _____

Make equivalent fractions:

9. $\frac{4}{5} = \_\_\_ = \_\_\_ = \_\_\_ = \_\_\_ = \_\_\_$

10. $\frac{3}{8} = \_\_\_ = \_\_\_ = \_\_\_ = \_\_\_ = \_\_\_$

Add or Subtract - Simplify Your Answers

11. $3\frac{3}{5} + 4\frac{2}{6}$

12. $6\frac{2}{3} - 3\frac{7}{8}$

Convert into an Improper Fraction
Simplify if possible.

12. $1\frac{3}{5} =$

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

14. $2\frac{3}{8} =$

Turn into a Mixed Number.
Simplify if possible.

15. $\frac{15}{4} =$

16. $\frac{25}{7} =$

17. $\frac{21}{6} =$

19. Ellie was going to a party and was in charge of the deserts. For her cookies, she needed 3/4 cups of sugar. For apple pies, she needed 2/8 cups of sugar. For cupcakes, she needed 5/6 cups of sugar. How much sugar does she need to make all of the desserts?

20. Christopher had 4 1/2 cans of paint. He needed to know if he had enough to paint his bedroom. Two of the walls required 6/8 of a can of paint each. The other two walls required 7/4 of a can of paint each. Does he have enough paint?

PERCEPTIONS
Changing the Way You Look At Math

Perceptions Blue
Unit 4
Pre/Post-Test

Name: Solutions

Answer the questions to the best of your ability.

Add or Subtract - Simplify Your Answers

1. $\frac{2}{5} + \frac{2}{3} =$

$\frac{6}{15} + \frac{10}{15} = \frac{16}{15} = 1\frac{1}{15}$

2. $\frac{3}{7} + \frac{4}{6} =$

$\frac{18}{42} + \frac{28}{42} = \frac{46}{42} = 1\frac{4}{42} = 1\frac{2}{21}$

3. $\frac{4}{5} - \frac{3}{8} =$

$\frac{32}{40} - \frac{15}{40} = \frac{17}{40}$

4. $\frac{1}{2} - \frac{7}{15} =$

$\frac{15}{30} - \frac{14}{30} = \frac{1}{30}$

5. $\frac{3}{4} + \frac{6}{8} + \frac{1}{2} =$

$\frac{6}{8} + \frac{6}{8} + \frac{4}{8} = \frac{16}{8} = 2$

6. Draw an example of $2\frac{1}{3}$

What is the Lowest Common Denominator (LCD) for each set of fractions?

7. $\frac{4}{6} = \frac{8}{12}$

$\frac{3}{4} = \frac{6}{8} = \frac{9}{12}$

The LCD is 12

8. $\frac{4}{15}$

$\frac{2}{3} = \frac{4}{6} = \frac{6}{9} = \frac{8}{12} = \frac{10}{15}$

The LCD is 15

Make equivalent fractions:

9. $\frac{4}{5} = \frac{8}{10} = \frac{12}{15} = \frac{16}{20} = \frac{20}{25} = \frac{24}{30}$

10. $\frac{3}{8} = \frac{6}{16} = \frac{9}{24} = \frac{12}{32} = \frac{15}{40} = \frac{18}{48}$

Add or Subtract - Simplify Your Answers

11. $3\frac{3}{5} = 3\frac{18}{30}$
$+\ 4\frac{2}{6} = 4\frac{10}{30}$
$7\frac{28}{30} = 7\frac{14}{15}$

12. $6\frac{2}{3} = 5\frac{+24}{16}\frac{16}{24}$
$-\ 3\frac{7}{8} = 3\frac{21}{24}$
$2\frac{19}{24}$

Convert into an Improper Fraction
Simplify if possible.

12. $1\frac{3}{5} = \frac{8}{5}$
13. $3\frac{5}{6} = \frac{23}{6}$
14. $2\frac{3}{8} = \frac{19}{8}$

Turn into a Mixed Number.
Simplify if possible.

15. $\frac{15}{4} = 3\frac{3}{4}$
16. $\frac{25}{7} = 3\frac{4}{7}$
17. $\frac{21}{6} = 3\frac{3}{6} = 3\frac{1}{2}$

19. Ellie was going to a party and was in charge of the deserts. For her cookies, she needed 3/4 cups of sugar. For apple pies, she needed 2/8 cups of sugar. For cupcakes, she needed 5/6 cups of sugar. How much sugar does she need to make all of the desserts?

$\frac{3}{4} + \frac{2}{8} + \frac{5}{6}$

$\frac{18}{24} + \frac{6}{24} + \frac{20}{24} = \frac{44}{24} = 1\frac{20}{24} = 1\frac{5}{6}$ cups

20. Christopher had 4 1/2 cans of paint. He needed to know if he had enough to paint his bedroom. Two of the walls required 6/8 of a can of paint each. The other two walls required 7/4 of a can of paint each. Does he have enough paint? No

$\frac{6}{8} + \frac{6}{8} + \frac{7}{4} + \frac{7}{4}$

$\frac{6}{8} + \frac{6}{8} + \frac{14}{8} + \frac{14}{8} = \frac{40}{8} = 5$ cans of paint are needed