Name _____ **Hour** _____ **Score**_____

Chapter 5 Test- Practice

Directions:

- ✓ Please show all work, and circle your final answer.
- ✓ All answers must be in LOWEST TERMS!
- ✓ Convert all improper fractions to mixed numbers.
- ✓ Check your work carefully.

1) Find the Least Common Multiple **(LCM)** of 15 and 35

5 | 15 | 35
3 | 7

105

2) Find the Least Common Multiple **(LCM)** of 4, 5 and 8

2 | 4 | 5 LCM = 20
2 | 2 | 5
4 | 8 | 20
2 | 5

40

Add or Subtract as Indicated:

3) $\frac{4}{5}-\frac{1}{3}=$ $\frac{7}{15}$

$\frac{4}{5}=\frac{12}{15}$
$-\frac{1}{3}=\frac{5}{15}$

4) $\frac{5}{8}+\frac{1}{2}=$ $1\frac{1}{8}$

$\frac{5}{8}$
$+\frac{1}{2}=\frac{4}{8}$
$\frac{9}{8}$

5) $\frac{7}{8}-\frac{2}{3}=$ $\frac{5}{24}$

$\frac{7}{8}=\frac{21}{24}$
$-\frac{2}{3}=\frac{16}{24}$

6) $\frac{2}{11}+\frac{2}{3}=$ $\frac{28}{33}$

$\frac{2}{11}=\frac{6}{33}$
$+\frac{2}{3}=\frac{22}{33}$

7) $36\frac{5}{8}-24\frac{5}{12}=$ $12\frac{5}{24}$

$36\frac{5}{8}=\frac{15}{24}$
$-24\frac{5}{12}=\frac{10}{24}$
$12\frac{5}{24}$

8) $17\frac{1}{4}-14\frac{3}{8}=$ $2\frac{7}{8}$

16
$\frac{1}{4}=\frac{2}{8}+\frac{8}{8}=\frac{10}{8}$
$-14\frac{3}{8}$
$2\frac{7}{8}$

9) $8 - 3\frac{2}{5} =$ $4\frac{3}{5}$

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

10) $17\frac{1}{6} + 12\frac{1}{4} =$ $29\frac{5}{12}$

$17\frac{1}{6} = \frac{2}{12}$
$+ 12\frac{1}{4} = \frac{3}{12}$

Multiply:

11) $3 \cdot \frac{1}{18}$ $\frac{1}{6}$

$\frac{3^1}{1} \cdot \frac{1}{18_6}$

12) $\frac{3}{4} \cdot \frac{8^2}{9} =$ $\frac{6}{9} = \frac{2}{3}$

13) $2\frac{2}{5} \cdot \frac{1}{3} =$ $\frac{4}{5}$

$\frac{12\cancel{4}}{5} \cdot \frac{1}{\cancel{3}_1}$

14) $\frac{7}{8} \cdot 1\frac{1}{3} =$ $1\frac{1}{6}$

$\frac{7}{\cancel{8}} \cdot \frac{\cancel{4}^1}{3} = \frac{7}{6}$
2

Find the reciprocal:

15) $\frac{11}{22}$ $\frac{22}{11}$

16) $2\frac{3}{8}$ $\frac{8}{19}$

$\frac{19}{8}$

Divide:

17) $\frac{8}{9} \div 12 =$ $\frac{2}{27}$

$\frac{2\ 8}{9} \cdot \frac{1}{12_3}$

18) $2\frac{1}{2} \div 1\frac{3}{4} =$ $1\frac{3}{7}$

$\frac{5}{2} \div \frac{7}{4} = \frac{5}{\cancel{2}_1} \cdot \frac{\cancel{4}^2}{7} = \frac{10}{7}$

$3\frac{1}{2} \div 2\frac{2}{6}$ $\boxed{1\frac{1}{2}}$

$\frac{7}{2} \div \frac{14}{6} = \frac{7^1}{2} \cdot \frac{6^3}{14_2} \quad \frac{3}{2}$

20) $15 \div 3\frac{3}{4}$ $\boxed{4}$

$\frac{15}{1} \div \frac{15}{4} = \frac{15^1}{1} \cdot \frac{4}{15_1}$

21) Sandy's recipe calls for 1½ lbs of sugar. If she wants to triple the recipe, how much sugar does she need?

$1\frac{1}{2} \cdot 3$

$\frac{3}{2} \cdot \frac{3}{1}$

$\boxed{4\frac{1}{2} \text{ lbs.}}$ $\frac{9}{2} = 4\frac{1}{2}$

22) David has 8 yard of fabric. If each cushion needs ¼ yard of fabric, how many cushions can he make?

$8 \div \frac{1}{4}$

$\frac{8}{1} \cdot \frac{4}{1}$

$\boxed{32}$ cushions

Extra Credit: You must show all work and the answer must be in lowest terms. Solve. $9\frac{2}{3} \div 6\frac{8}{9}$

$\frac{29}{3} \div \frac{62}{9}$

$\frac{29}{3_1} \cdot \frac{9^3}{62} = \frac{87}{62} = 1\frac{25}{62}$