Name _____

Chapter 9 Study Guide

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Add or subtract. Write in simplest form.

1. $\frac{3}{12}+\frac{2}{12}=$ $\frac{5}{12}$ (1)	A. $\frac{1}{12}$ C. $\frac{1}{2}$ (B.) $\frac{5}{12}$ D. $\frac{6}{12}$
2. $\frac{4}{5}-\frac{2}{5}=$ $\frac{2}{5}$ (1)	A. $\frac{6}{5}$ C. $\frac{3}{5}$ B. $\frac{4}{5}$ (D.) $\frac{2}{5}$
3. $\frac{7}{10}-\frac{5}{10}=$ $\frac{2\div2}{10\div2}$ $\frac{1}{5}$ (2)	(A.) $\frac{1}{5}$ C. $\frac{3}{5}$ B. $\frac{1}{2}$ D. $\frac{12}{10}$
4. $\frac{3}{8}+\frac{3}{8}=$ $\frac{6\div2}{8\div2}$ $\frac{3}{4}$ (2)	A. $\frac{9}{8}$ C. $\frac{1}{2}$ (B.) $\frac{3}{4}$ D. $\frac{1}{8}$
5. $5\frac{2}{4}+4\frac{1}{4}=$ $9\frac{3}{4}$ (1)	(A.) $9\frac{3}{4}$ C. $8\frac{3}{4}$ B. $9\frac{3}{8}$ D. $1\frac{1}{4}$
6. $4\frac{3}{6}-3\frac{1}{6}=$ $1\frac{2\div2}{6\div2}$ $1\frac{1}{3}$ (2)	A. $7\frac{1}{3}$ C. $1\frac{1}{2}$ $1\frac{2}{3}$ (D.) $1\frac{1}{3}$

7. $7\frac{2}{4}+6\frac{3}{4}=13\frac{5}{4}$ ① ② $5\overline{)4}$ $1\frac{1}{5}$ -4 $+13$ 1 ③ $14\frac{1}{4}$ (3)

A. $14\frac{1}{4}$ C. $13\frac{5}{4}$ B. $1\frac{1}{4}$ D. $8\frac{1}{2}$

8. $2\frac{4}{6}+3\frac{3}{6}=5\frac{7}{6}$ 21 $6\overline{)7}$ $1\frac{1}{6}$ -6 $+5\ 3$ 1 $6\frac{1}{4}$ (3)

A. $5\frac{7}{6}$ C. $6\frac{3}{2}$ B. $1\frac{1}{6}$ D. $6\frac{1}{6}$

9. $5\frac{1}{3}-1\frac{2}{3}=$ $\frac{16}{3}-\frac{5}{3}=\frac{11}{3}$ 4 3 $3\overline{)11}$ $3\frac{2}{3}$ -9 2 (4)

A. $4\frac{1}{3}$ C. $\frac{11}{3}$ B. $3\frac{2}{3}$ D. $5\frac{1}{2}$

10. $4\frac{4}{8}-2\frac{7}{8}=$ $\frac{36}{8}-\frac{23}{8}=\frac{13}{8}$ 4 1 $\frac{5}{8}$ $8\overline{)13}$ -8 5 $1\frac{5}{8}$ (4)

A. $1\frac{5}{8}$ C. $2\frac{3}{8}$ B. $\frac{13}{8}$ D. $2\frac{1}{2}$

Multiply. Write in simplest form.

11. $\frac{7}{1} \times \frac{3}{6}$ $\frac{21}{6}$ $6\overline{)21}$ R 3 $3\frac{3}{6} = 3\frac{1}{2}$ (3)	A. $1\frac{2}{3}$ B. $3\frac{1}{3}$ C. $3\frac{1}{2}$ D. $3\frac{2}{3}$
12. $\frac{12}{1} \times \frac{2}{10}$ $\frac{24}{10}$ $10\overline{)24}$ R 4 $2\frac{4}{10} = 2\frac{2}{5}$ (3)	A. $2\frac{1}{2}$ B. $2\frac{2}{5}$ C. $1\frac{1}{2}$ D. $1\frac{2}{5}$

Read each question carefully. Write your answer on the lines provided. Solve.

13. Tony had $4\frac{7}{10}$ boxes of rice. He used $2\frac{3}{10}$ boxes over a month. How many boxes of rice does Tony have left? (2)	$4\frac{7}{10} - 2\frac{3}{10} = 2\frac{4}{10}$ $2\frac{2}{5}$
14. Mrs. Kelly cut a watermelon into 8 pieces. Grace ate 3 pieces of the watermelon and Nathan ate 2 pieces. What fraction of the watermelon did Grace and Nathan eat? (1)	$\frac{3}{8} + \frac{2}{8} = \frac{5}{8}$
15. Zoe and her 2 sisters each had $\frac{5}{6}$ cup of dried fruit for snack. How many cups of dried fruit did the girls have altogether? (2)	$\frac{5}{6} \times \frac{3}{1} = \frac{15}{6}$ $6\overline{)15}$ R 3 $2\frac{3}{6} = 2\frac{1}{2}$
16. Write $\frac{4}{12}$ as a sum of the unit fraction. (1)	$\frac{1}{12} + \frac{1}{12} + \frac{1}{12} + \frac{1}{12}$

17. Mr. Niles used $\frac{5}{12}$ of a carton of eggs to make breakfast Saturday. He used $\frac{2}{12}$ of the carton on Sunday. How many more eggs did he use on Saturday? (2)	$\frac{5}{12} - \frac{2}{12} = \frac{3 \div 3}{12 \div 3} \quad \frac{1}{4}$

The fraction of Mrs. Dewey's garden used by each plant is listed in the table. Use the table below to answer Exercises 18-20.

Mrs. Dewey's Garden	
Lilies	$\frac{1}{6}$
Pansies	$\frac{3}{6}$

18. How much more of the garden is used by pansies than lilies? (2)	$\frac{3}{6} - \frac{1}{6} = \frac{2 \div 2}{6 \div 2} = \frac{1}{3}$
19. How much of the garden is used by the lilies and pansies together? (2)	$\frac{3}{6} + \frac{1}{6} = \frac{4 \div 2}{6 \div 2} \quad \frac{2}{3}$
20. Mrs. Dewey adds some lilies to now take up a total of $\frac{2}{6}$ of the garden. The amount of the garden used by pansies stays the same. If the rest of the garden is roses, how much of the garden is roses? (2)	$\frac{2}{6} + \frac{3}{6} = \frac{5}{6}$ $\frac{1}{6}$