

Name

Key

## Chapter 9 Study Guide

Add or subtract. Write in simplest form.

1. $\frac{5}{10} + \frac{1}{10} = \frac{6}{10} \div 2 = \frac{3}{5}$	A. $\frac{2}{5}$ C. $\frac{3}{5}$ B. $\frac{4}{10}$ D. $\frac{7}{10}$
2. $\frac{5}{6} - \frac{4}{6} = \frac{1}{6}$	A. $\frac{1}{6}$ C. $\frac{2}{3}$ B. $\frac{1}{4}$ D. $\frac{9}{6}$
3. $\frac{8}{12} - \frac{2}{12} = \frac{6}{12} \div 6 = \frac{1}{2}$	A. $\frac{10}{12}$ C. $\frac{1}{2}$ B. $\frac{5}{6}$ D. $\frac{5}{12}$
4. $\frac{4}{8} - \frac{1}{8} = \frac{3}{8}$	A. $\frac{1}{4}$ C. $\frac{1}{2}$ B. $\frac{3}{8}$ D. $\frac{5}{8}$
5. $6\frac{5}{8} + 5\frac{1}{8} = 11\frac{6}{8} \div 2 = 11\frac{3}{4}$	A. $11\frac{3}{4}$ C. $1\frac{3}{4}$ B. $11\frac{1}{2}$ D. $1\frac{1}{2}$
6. $9\frac{3}{5} - 4\frac{2}{5} = 5\frac{1}{5}$	A. $13\frac{1}{5}$ C. $5\frac{1}{5}$ B. $5\frac{1}{2}$ D. $4\frac{1}{5}$

$$7. 3\frac{2}{6} + 5\frac{5}{6} =$$

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

$$6\overline{)7} \quad 1\frac{1}{6}$$

$$\underline{-6}$$

$$1$$

$$8 + 1\frac{1}{6} = 9\frac{1}{6}$$

A.  $8\frac{7}{6}$

**C**  $9\frac{1}{6}$

B.  $1\frac{1}{6}$

D.  $8\frac{1}{2}$

$$8. 1\frac{5}{8} + 5\frac{7}{8} =$$

$$6\frac{12}{8}$$

$$8\overline{)12} \quad 1\frac{4}{8} = 1\frac{1}{2}$$

$$\underline{-8}$$

$$4$$

$$6 + 1\frac{1}{2} = 7\frac{1}{2}$$

A.  $6\frac{12}{8}$

C.  $6\frac{3}{2}$

**B**  $7\frac{1}{2}$

D.  $1\frac{1}{2}$

can't do

$$9. 4\frac{1}{3} - 2\frac{2}{3} =$$

$$\frac{13}{3} - \frac{8}{3} = \frac{5}{3}$$

$$3\overline{)5} \quad 1\frac{2}{3}$$

$$\underline{-3}$$

$$2$$

**A**  $1\frac{2}{3}$

C.  $2\frac{1}{3}$

B.  $\frac{5}{3}$

D.  $5\frac{1}{2}$

can't do

$$10. 5\frac{3}{8} - 2\frac{7}{8} =$$

$$\frac{43}{8} - \frac{23}{8} = \frac{20}{8}$$

$$8\overline{)20} \quad 2\frac{4}{8} = 2\frac{1}{2}$$

$$\underline{-16}$$

$$4$$

A.  $\frac{20}{8}$

**C**  $2\frac{1}{2}$

B.  $3\frac{4}{8}$

D.  $\frac{5}{2}$

Multiply. Write in simplest form.

<p>11. <math>\frac{11}{1} \times \frac{1}{4} = \frac{11}{4}</math>      <math>4 \overline{)11} \begin{array}{r} 2 \\ -8 \\ \hline 3 \end{array}</math>      <math>2\frac{3}{4}</math></p>	<p>A. <math>1\frac{3}{4}</math>      C. <math>2\frac{3}{4}</math>          B. <math>2\frac{1}{4}</math>      D. <math>3\frac{1}{4}</math></p>
<p>12. <math>\frac{9}{1} \times \frac{2}{8} = \frac{18}{8}</math>      <math>8 \overline{)18} \begin{array}{r} 2 \\ -16 \\ \hline 2 \end{array}</math>      <math>2\frac{2}{8} = 2\frac{1}{4}</math>      <math>2\frac{1}{4}</math></p>	<p>A. 3      C. <math>2\frac{1}{2}</math>          B. <math>2\frac{3}{4}</math>      D. <math>2\frac{1}{4}</math></p>

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

<p>13. Tony had <math>2\frac{6}{8}</math> boxes of cereal. He ate <math>1\frac{2}{8}</math> boxes over a week. How many boxes of cereal does Tony have left?</p>	<p><math>2\frac{6}{8} - 1\frac{2}{8} = 1\frac{4}{8} = 1\frac{1}{2}</math></p>
<p>14. Mrs. Freitas cut a watermelon into 12 pieces. Ana ate 2 pieces of the watermelon and Marco ate 2 pieces. What fraction of the watermelon did Ana and Marco eat?</p>	<p><math>\frac{2}{12} + \frac{2}{12} = \frac{4}{12} = \frac{1}{3}</math></p>
<p>15. Memphis and his 2 brothers each had <math>\frac{3}{4}</math> cup of pretzels for a snack. How many cups of pretzels did the boys have altogether?</p>	<p><math>\frac{3}{1} \times \frac{3}{4} = \frac{9}{4}</math>      <math>4 \overline{)9} \begin{array}{r} 2 \\ -8 \\ \hline 1 \end{array}</math>  <math>2\frac{1}{4}</math></p>
<p>16. Write <math>\frac{3}{5}</math> as a sum of the unit fraction.</p>	<p><math>\frac{1}{5} + \frac{1}{5} + \frac{1}{5} = \frac{3}{5}</math></p>

17. Mr. Dylan used  $\frac{5}{12}$  of a carton of eggs to make breakfast Sunday. He used  $\frac{3}{12}$  of the carton on Monday. How many more eggs did he use on Sunday?

$$\frac{5}{12} - \frac{3}{12} = \frac{2 \div 2}{12 \div 2} = \frac{1}{6}$$

The fraction of Mrs. Costa's garden used by each plant is listed in the table. Use the table below to answer Exercises 15-17.

Mrs. Costa's Garden	
Petunias	$\frac{1}{8}$
Tulips	$\frac{3}{8}$

18. How much more of the garden is used by tulips than petunias?

$$\frac{3}{8} - \frac{1}{8} = \frac{2 \div 2}{8 \div 2} = \frac{1}{4}$$

19. How much of the garden is used by the petunias and tulips together?

$$\frac{1}{8} + \frac{3}{8} = \frac{4 \div 4}{8 \div 4} = \frac{1}{2}$$

20. Mrs. Costa adds some petunias to now take up a total of  $\frac{2}{8}$  of the garden. The amount of the garden used by tulips stays the same. If the rest of the garden is daffodils, how much of the garden is daffodils.

$$\frac{2}{8} + \frac{3}{8} = \frac{5}{8}$$

$$\frac{3}{8} = \text{daffodils}$$