

4-4**Skills Practice**
Simplifying Fractions

Write each fraction in simplest form.

1. $\frac{49}{70}$

2. $\frac{5}{30}$

3. $\frac{6}{14}$

4. $\frac{14}{28}$

5. $\frac{72}{72}$

6. $\frac{18}{21}$

7. $\frac{45}{75}$

8. $\frac{50}{200}$

9. $\frac{32}{50}$

10. $\frac{56}{64}$

11. $\frac{14}{35}$

12. $\frac{39}{45}$

13. $\frac{48}{66}$

14. $\frac{42}{45}$

15. $\frac{78}{130}$

Write two fractions that are equivalent to each fraction.

16. $\frac{3}{4}$

17. $\frac{7}{9}$

18. $\frac{7}{11}$

19. $\frac{14}{17}$

20. $\frac{21}{23}$

21. $\frac{11}{17}$

5-1**Skills Practice*****Estimating with Fractions*****Estimate.**

1. $\frac{4}{5} + \frac{2}{11}$

2. $\frac{4}{7} + \frac{1}{5}$

3. $\frac{7}{9} - \frac{1}{5}$

4. $\frac{9}{10} - \frac{1}{23}$

5. $\frac{3}{5} + \frac{9}{11}$

6. $\frac{4}{5} - \frac{4}{9}$

7. $5\frac{1}{7} + 7\frac{9}{11}$

8. $3\frac{10}{11} - 2\frac{1}{6}$

9. $5\frac{1}{4} - \frac{1}{7}$

10. $8\frac{3}{7} - 2\frac{1}{2}$

11. $2\frac{1}{8} + 6\frac{9}{10}$

12. $10\frac{1}{8} - 3\frac{1}{4}$

13. $\frac{4}{5} \times \frac{8}{9}$

14. $\frac{6}{7} \div \frac{10}{11}$

15. $3\frac{6}{7} \times 2\frac{1}{10}$

16. $16\frac{1}{3} \div 3\frac{8}{9}$

17. $31\frac{3}{4} \div 2\frac{1}{8}$

18. $3\frac{4}{5} \cdot 1\frac{1}{4}$

19. $12 \div 2\frac{6}{7}$

20. $44\frac{1}{5} \div 3\frac{7}{8}$

21. $10\frac{1}{7} \cdot 4\frac{1}{3}$

22. $5\frac{1}{8} \cdot 6\frac{9}{11}$

23. $\frac{3}{12} \div 4\frac{4}{5}$

24. $2\frac{1}{2} \div 3\frac{1}{3}$

25. Estimate $36\frac{1}{4}$ divided by 6.26. Estimate the sum of $7\frac{9}{10}$, $2\frac{1}{5}$, and $3\frac{2}{3}$.

Name _____ Date _____ Pd _____

WS "Stilwell Practice 5-2"

Write each fraction in simplest form.

1) $\frac{18}{27}$

2) $\frac{13}{26}$

3) $\frac{20}{35}$

4) $\frac{30}{36}$

5) $\frac{72}{96}$

6) $\frac{20}{45}$

Change to a Mixed Number or Whole Number.

7) $\frac{27}{5}$

8) $\frac{69}{4}$

9) $\frac{72}{9}$

10) $\frac{18}{3}$

11) $\frac{80}{13}$

12) $\frac{120}{19}$

Change to an Improper Fraction.

13) $9\frac{2}{3}$

14) $8\frac{5}{6}$

15) $13\frac{1}{2}$

16) $21\frac{3}{4}$

17) $47\frac{1}{8}$

18) $16\frac{5}{9}$

Find the Least Common Denominator. (also known as the Least Common Multiple)

19) 9, 6

20) 8, 12

21) 20, 30

22) 12, 18

OVER 

Name _____ Date _____ Pd _____

Add or Subtract. Write in simplest form.

23) $\frac{4}{9} + \frac{2}{9}$

24) $\frac{3}{8} - \frac{1}{8}$

25) $\frac{4}{5} - \frac{2}{5}$

26) $\frac{3}{7} + \frac{1}{7}$

27) $\frac{5}{8} + \frac{7}{8}$

28) $\frac{5}{6} - \frac{1}{6}$

29) $\frac{9}{10} + \frac{3}{10}$

30) $\frac{2}{3} + \frac{2}{3}$

31) $\frac{4}{7} - \frac{2}{7}$

32) $\frac{5}{8} + \frac{1}{8}$

33) $\frac{7}{8} - \frac{5}{8}$

34) $\frac{5}{6} - \frac{1}{6}$

5-2**Skills Practice*****Adding and Subtracting Fractions***

Add or subtract. Write in simplest form.

1. $\frac{3}{8} + \frac{3}{8}$

2. $\frac{7}{10} - \frac{5}{10}$

3. $\frac{9}{10} + \frac{3}{10}$

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

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

6. $\frac{5}{9} - \frac{2}{9}$

7. $\frac{8}{15} - \frac{1}{5}$

8. $\frac{5}{6} + \frac{5}{12}$

9. $\frac{3}{5} - \frac{3}{10}$

10. $\frac{7}{16} + \frac{3}{8}$

11. $\frac{19}{20} - \frac{3}{10}$

12. $\frac{5}{9} + \frac{7}{9}$

13. $\frac{4}{9} - \frac{1}{12}$

14. $\frac{2}{3} + \frac{3}{7}$

15. $\frac{3}{4} + \frac{1}{7}$

16. $\frac{7}{8} - \frac{2}{3}$

17. $\frac{8}{9} - \frac{5}{6}$

18. $\frac{5}{12} - \frac{3}{10}$

19. $\frac{7}{9} + \frac{2}{3}$

20. $\frac{3}{5} + \frac{4}{11}$

21. $\frac{11}{12} - \frac{1}{4}$

ALGEBRA Evaluate each expression if $a = \frac{5}{6}$ and $b = \frac{3}{8}$.

22. $a + b$

23. $a - b$

24. $\frac{9}{10} - a$

5-2**Practice****Adding and Subtracting Fractions**

Add or subtract. Write in simplest form.

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

2. $\frac{2}{9} + \frac{4}{9}$

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

4. $\frac{4}{8} + \frac{5}{8}$

5. $\frac{1}{18} + \frac{5}{6}$

6. $\frac{7}{15} - \frac{1}{5}$

7. $\frac{9}{16} - \frac{5}{12}$

8. $\frac{5}{14} - \frac{2}{21}$

9. $\frac{7}{8} - \frac{1}{6}$

10. $\frac{7}{10} - \frac{4}{15}$

11. $\frac{5}{6} - \frac{3}{4}$

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

13. $1 + \frac{1}{6}$

14. $1 - \frac{3}{5}$

15. $4 + \frac{8}{9}$

16. $5 - \frac{1}{4}$

17. $\frac{2}{3} + \frac{4}{15} + \frac{1}{5}$

18. $\frac{7}{8} + \frac{1}{2} + \frac{3}{16}$

19. $\left(\frac{3}{4} + \frac{1}{3}\right) - \frac{11}{12}$

20. $\left(\frac{4}{5} - \frac{7}{10}\right) + \frac{1}{4}$

21. **STATES** Most of the state names in the United States end in a vowel. Of the 50 states, $\frac{1}{2}$ of the state names end in either an *a* or an *e* and $\frac{3}{25}$ end in either an *i* or an *o*. If none of the state names end in a *u*, what is the fraction of state names that end in a vowel?

22. **JIGSAW PUZZLES** Over the weekend, Halverson had put together $\frac{3}{16}$ of a jigsaw puzzle, while Jaime put together $\frac{5}{8}$ of the puzzle. Who had completed a greater fraction of the jigsaw puzzle, and by how much?

ALGEBRA Evaluate each expression if $x = \frac{5}{8}$ and $y = \frac{5}{4}$.

23. $x - \frac{1}{2}$

24. $y - x$

25. $\frac{5}{16} + y$

26. $x + y$

5-3**Study Guide and Intervention****Adding and Subtracting Mixed Numbers**

To add or subtract mixed numbers:

1. Add or subtract the fractions. Rename using the LCD if necessary.
2. Add or subtract the whole numbers.
3. Simplify if necessary.

Example 1 Find $14\frac{1}{2} + 18\frac{2}{3}$.

$$\begin{array}{r} 14\frac{1}{2} \rightarrow 14\frac{3}{6} \\ +18\frac{2}{3} \rightarrow +18\frac{4}{6} \\ \hline \end{array}$$

Rename the fractions.

$$32\frac{7}{6} \text{ or } 33\frac{1}{6}$$

Add the whole numbers and add the fractions.

Simplify.

Example 2 Find $21 - 12\frac{5}{8}$.

$$\begin{array}{r} 21 \rightarrow 20\frac{8}{8} \\ -12\frac{5}{8} \rightarrow -12\frac{5}{8} \\ \hline \end{array}$$

Rename 21 as $20\frac{8}{8}$.

First subtract the whole numbers and then the fractions.

$$8\frac{3}{8}$$

Exercises

Add or subtract. Write in simplest form.

1. $7\frac{3}{4} + 2\frac{3}{4}$

2. $14\frac{2}{9} - 6\frac{1}{9}$

3. $9\frac{1}{5} - 4\frac{3}{4}$

4. $7\frac{1}{8} + 5\frac{3}{8}$

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

6. $5\frac{1}{2} - 5\frac{1}{3}$

7. $5\frac{1}{2} - 3\frac{1}{4}$

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

9. $9 - 3\frac{2}{5}$

10. $2\frac{2}{3} + 7\frac{1}{2}$

11. $6\frac{1}{2} - 6\frac{1}{3}$

12. $18\frac{1}{2} + 5\frac{5}{8}$

5-3**Practice****Adding and Subtracting Mixed Numbers**

Add or Subtract. Write in simplest form.

1. $3\frac{1}{8} + 5\frac{3}{8}$

2. $4\frac{1}{6} + 7\frac{1}{6}$

3. $9\frac{3}{4} - 6\frac{1}{4}$

4. $5\frac{5}{9} - 4\frac{2}{9}$

5. $8\frac{2}{3} - 3\frac{1}{6}$

6. $10\frac{3}{4} - 5\frac{3}{8}$

7. $7\frac{3}{10} + 12\frac{2}{5}$

8. $1\frac{1}{6} + 1\frac{1}{8}$

9. $5\frac{1}{3} - 3\frac{2}{3}$

10. $8\frac{4}{7} - 7\frac{5}{7}$

11. $11\frac{1}{12} - 6\frac{5}{6}$

12. $3\frac{2}{5} - 1\frac{3}{4}$

13. $5\frac{4}{5} + 6\frac{5}{6}$

14. $8\frac{2}{7} + 6\frac{5}{14}$

15. $9 - 7\frac{3}{8}$

16. $6\frac{4}{5} + 7\frac{1}{5}$

17. $4\frac{3}{5} + 1\frac{11}{20} + 5\frac{7}{10}$

18. $10 - 9\frac{1}{3}$

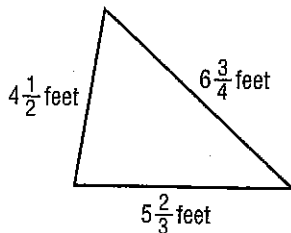
19. $2\frac{1}{4} + 5\frac{3}{8} + 3\frac{1}{2}$

20. $7 - 6\frac{7}{8}$

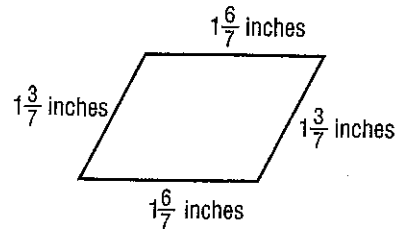
21. **LAND MEASUREMENT** Mr. Alfonso owns two adjacent pieces of land totaling $13\frac{3}{8}$ acres. One piece of land is $8\frac{7}{12}$ acres. Find the area of the other piece of land.

GEOMETRY Find the perimeter of each figure.

22.



23.



Name _____ Date _____ Pd _____

WS "Stilwell Practice 5-5"

☺ Remember: When multiplying fractions, multiply the _____ and _____ the denominators.

Multiply. Write in simplest form. Show work!

1) $\frac{2}{3} \times \frac{1}{3} =$ _____

2) $\frac{1}{4} \times \frac{8}{9} =$ _____

3) $\frac{1}{5} \times \frac{5}{6} =$ _____

4) $\frac{9}{10} \times \frac{5}{6} =$ _____

5) $\frac{2}{5} \times \frac{5}{16} =$ _____

6) $\frac{3}{8} \times \frac{10}{27} =$ _____

Multiply. Write in simplest form. Show work!

7) $2 \times \frac{2}{5} =$ _____

8) $\frac{1}{6} \times 4 =$ _____

9) $2\frac{1}{4} \times \frac{2}{3} =$ _____

10) $8 \times 3\frac{3}{4} =$ _____

11) $\frac{4}{7} \times 4\frac{2}{3} =$ _____

12) $3\frac{1}{4} \times 2\frac{2}{3} =$ _____

13) $9 \times 4\frac{2}{3} =$ _____

14) $4 \times 7\frac{5}{6} =$ _____

15) $5\frac{1}{3} \times 3\frac{3}{4} =$ _____

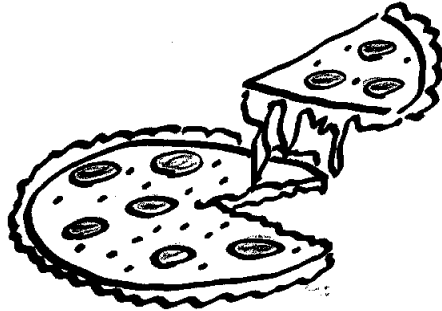
16) $1\frac{1}{6} \times 3\frac{3}{5} =$ _____

OVER →

Name _____ Date _____ Pd _____

Multiply. Write in simplest form. Show work!

17) Mark left $\frac{3}{8}$ of a pizza in the refrigerator. On Friday, he ate $\frac{1}{2}$ of what was left of the pizza. What fraction of the entire pizza did he eat on Friday? _____



18) A recipe to make one batch of blueberry muffins calls for $4\frac{2}{3}$ cups of flour. How many cups are needed of flour to make 3 batches of blueberry muffins? _____



5-5**Skills Practice****Multiplying Fractions and Mixed Numbers**

Multiply. Write in simplest form.

1. $\frac{1}{2} \times \frac{4}{5}$

2. $\frac{1}{9} \times \frac{3}{5}$

3. $\frac{15}{24} \times \frac{3}{20}$

4. $\frac{1}{7} \times \frac{1}{5}$

5. $\frac{5}{7} \times \frac{14}{15}$

6. $\frac{9}{10} \times \frac{5}{9}$

7. $\frac{4}{11} \times \frac{3}{8}$

8. $\frac{2}{3} \times \frac{7}{9}$

9. $\frac{9}{13} \times \frac{26}{27}$

10. $\frac{4}{9} \times 5$

11. $7 \times \frac{2}{7}$

12. $2\frac{4}{5} \times \frac{1}{3}$

13. $4\frac{1}{2} \times \frac{1}{3}$

14. $5\frac{3}{4} \times 12$

15. $14 \times 2\frac{3}{7}$

16. $2\frac{3}{5} \times 1\frac{3}{7}$

17. $1\frac{4}{9} \times 2\frac{4}{7}$

18. $5\frac{5}{6} \times 6\frac{3}{8}$

19. $10\frac{7}{9} \times 4\frac{1}{4}$

20. $9\frac{7}{9} \times 7\frac{3}{4}$

21. $3\frac{3}{4} \times 2\frac{4}{7}$

5-5**Practice****Multiplying Fractions and Mixed Numbers****Multiply. Write in simplest form.**

1. $\frac{3}{5} \times \frac{1}{2}$

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

3. $10 \times \frac{1}{3}$

4. $\frac{5}{8} \times 7$

5. $\frac{1}{7} \times \frac{7}{9}$

6. $\frac{6}{11} \times \frac{1}{6}$

7. $\frac{5}{6} \times \frac{1}{5}$

8. $\frac{1}{8} \times \frac{4}{5}$

9. $\frac{3}{8} \times \frac{8}{9}$

10. $\frac{4}{7} \times \frac{21}{32}$

11. $\frac{5}{8} \times \frac{18}{25}$

12. $\frac{20}{21} \times \frac{3}{5}$

13. $3\frac{1}{5} \times \frac{3}{8}$

14. $\frac{2}{3} \times 4\frac{1}{3}$

15. $15 \times 2\frac{2}{5}$

16. $5\frac{1}{2} \times 4$

17. $8 \times 3\frac{3}{8}$

18. $10 \times 1\frac{1}{15}$

19. $5\frac{1}{4} \times 4\frac{2}{3}$

20. $2\frac{2}{7} \times 1\frac{1}{8}$

For Exercises 21 and 22, use measurement conversions.

21. Find $\frac{1}{10}$ of $\frac{1}{100}$ of a meter.

22. Find $\frac{1}{60}$ of $\frac{1}{60}$ of an hour.

For Exercises 23–25, evaluate each verbal expression.

23. one-fourth of two-thirds 24. three-fifths of one-sixth 25. two-fifths of one-half

26. **GASOLINE** Jamal filled his gas tank and then used $\frac{7}{16}$ of the tank for traveling to visit his grandfather. He then used $\frac{1}{3}$ of the remaining gas in the tank to run errands around town. What fraction of the tank is filled with gasoline?

27. **HIKING** A hiker averages $6\frac{3}{8}$ kilometers per hour. If he hikes for $5\frac{1}{3}$ hours, how many kilometers did he hike?

ALGEBRA Evaluate each expression if $x = 3\frac{1}{3}$, $y = 4\frac{5}{6}$, and $z = 2$.

28. $x \times z - y$

29. $y \times z + x$

30. $3yz$

Name _____ Date _____ Pd _____

WS "Stilwell Practice 5-7"

Remember: Reciprocal can also be called _____.

Examples:

$$\frac{3}{4} \longrightarrow \frac{4}{3}$$

$$\frac{9}{25} \longrightarrow \frac{25}{9}$$

$$16 \longrightarrow \frac{16}{1} \longrightarrow \frac{1}{16}$$

$$48 \longrightarrow \frac{48}{1} \longrightarrow \frac{1}{48}$$

$$3\frac{2}{5} \longrightarrow \frac{17}{5} \longrightarrow \frac{5}{17}$$

$$6\frac{2}{11} \longrightarrow \frac{70}{11} \longrightarrow \frac{11}{70}$$

Change the following numbers to their reciprocals!

1) $\frac{5}{6}$ _____ 2) $\frac{7}{8}$ _____ 3) $\frac{13}{41}$ _____ 4) $\frac{9}{56}$ _____

5) $\frac{1}{2}$ _____ 6) 12 _____ 7) 25 _____ 8) 93 _____

9) 4 _____ 10) 178 _____ 11) $3\frac{1}{2}$ _____ 12) $7\frac{2}{5}$ _____

13) $9\frac{3}{8}$ _____ 14) $66\frac{2}{3}$ _____ 15) $4\frac{1}{6}$ _____ 16) $\frac{4}{9}$ _____

17) 20 _____ 18) $37\frac{1}{2}$ _____ 19) $\frac{1}{12}$ _____ 20) $11\frac{1}{9}$ _____

OVER →

Name _____ Date _____ Pd _____

☺ Remember: When dividing by a fraction, multiply by its

_____ OR

_____ ☺

Divide. Write in simplest form. Show work!

1) $\frac{1}{8} \div \frac{1}{3}$ _____

2) $\frac{3}{5} \div \frac{1}{4}$ _____

3) $3 \div \frac{6}{7}$ _____

4) $\frac{3}{4} \div 6$ _____

5) $\frac{1}{2} \div 7\frac{1}{2}$ _____

6) $\frac{4}{7} \div 1\frac{2}{7}$ _____

7) $5\frac{3}{5} \div 4\frac{2}{3}$ _____

8) $6\frac{1}{2} \div 3\frac{5}{7}$ _____



9) Deandre has 7 apples, and each apple is divided evenly into eighths. How many apple slices does Deandre have? _____

10) $2\frac{2}{3} \div 4$ _____

11) $\frac{4}{9} \div 2$ _____

12) $\frac{7}{8} \div \frac{3}{4}$ _____

13) $5 \div 1\frac{1}{3}$ _____

14) $5\frac{2}{7} \div 2\frac{1}{7}$ _____

15) $9\frac{1}{2} \div 2\frac{5}{6}$ _____

5-7

Practice

Dividing Fractions and Mixed Numbers

Divide. Write in simplest form.

1. $\frac{3}{5} \div \frac{3}{4}$

2. $\frac{4}{7} \div \frac{8}{9}$

3. $\frac{6}{7} \div \frac{5}{6}$

4. $\frac{1}{4} \div \frac{1}{2}$

5. $7 \div \frac{1}{3}$

6. $\frac{6}{11} \div 2$

7. $4\frac{1}{5} \div 7$

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

9. $\frac{3}{4} \div 1\frac{1}{6}$

10. $\frac{7}{9} \div 2\frac{5}{8}$

11. $3\frac{2}{5} \div 5\frac{1}{10}$

12. $4\frac{8}{9} \div \frac{2}{3}$

13. $2\frac{3}{5} \div 1\frac{1}{4}$

14. $7\frac{1}{2} \div 2\frac{1}{2}$

15. $5\frac{1}{4} \div \frac{7}{8}$

16. $8\frac{1}{3} \div \frac{5}{9}$

17. **COOKING** Mrs. Lau rolls out $2\frac{3}{4}$ feet of dough to make noodles. If the noodles are $\frac{3}{8}$ of an inch wide, how many noodles will she make?

PIZZA For Exercises 18 and 19, use the table that shows the weights of three sizes of pizza.

18. How many times heavier is the extra-large pizza than the small pizza?

19. How many times heavier is the medium pizza than the small pizza?

Pizza Size	Weight (lbs)
Extra large	$6\frac{1}{2}$
Medium	$3\frac{1}{4}$
Small	$1\frac{5}{8}$

ALGEBRA Evaluate each expression if $a = \frac{2}{5}$, $b = \frac{3}{10}$, and $c = 2\frac{1}{2}$.

20. $b \div a$

21. $a \div c$

22. $3a \div b$

23. $\frac{1}{5}c \div a$

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Lesson 5-7

Name: _____ Date: _____ Period: _____

Chapter 5 (Applying Fractions)

Bringing It All Together #1

Vocabulary Check

Choose the correct term or number in the parenthesis to complete each sentence.

- 1) To add like fractions, add the (numerators, denominators). _____
- 2) Another word for multiplicative inverse is (reciprocal, denominator). _____
- 3) When dividing by a fraction, multiply by its (value, reciprocal). _____
- 4) Fractions with different denominators are called (like, unlike) fractions. _____
- 5) The multiplicative inverse of $\frac{5}{6}$ is $(\frac{6}{5}, -\frac{5}{6})$. _____
- 6) The mixed number $2\frac{4}{7}$ can be renamed as $(2\frac{7}{7}, 1\frac{11}{7})$. _____
- 7) When multiplying fractions, multiply the numerators and (multiply, keep) the denominators. _____
- 8) The reciprocal of $\frac{1}{3}$ is (-3, 3). _____
- 9) The fractions $\frac{4}{16}$ and $\frac{2}{4}$ are (like, unlike) fractions. _____

OVER 

5-1 Estimating with Fractions (p. 230-235)

Estimate.

10) $\frac{4}{5} + \frac{2}{11}$ _____

11) $\frac{9}{10} - \frac{1}{23}$ _____

12) $3\frac{6}{7} \times 2\frac{1}{10}$ _____

13) $16\frac{1}{3} \div 3\frac{8}{9}$ _____

5-2 Adding and Subtracting Fractions (p. 236-241)

Add or subtract. Write in simplest form.

14) $\frac{2}{6} - \frac{1}{6}$ _____

15) $\frac{3}{7} + \frac{9}{14}$ _____

16) $\frac{1}{9} + \frac{5}{9}$ _____

17) $\frac{9}{10} - \frac{3}{10}$ _____

18) $\frac{5}{8} - \frac{5}{12}$ _____

19) $\frac{3}{4} + \frac{7}{20}$ _____

- 20) Owen ate $\frac{1}{8}$ of a pizza Tuesday night. The next day, he ate an additional $\frac{1}{2}$ of the pizza. What fraction of the pizza has he eaten?

OVER →

5-3 Adding and Subtracting Mixed Numbers (p. 242-246)

Add or subtract. Write in simplest form.

21) $3\frac{2}{15} + 6\frac{9}{15}$ _____

22) $4\frac{1}{3} - 2\frac{2}{3}$ _____

23) $8\frac{2}{7} + 1\frac{6}{7}$ _____

24) $7\frac{11}{12} - 4\frac{3}{12}$ _____

25) $7\frac{3}{5} - 5\frac{1}{3}$ _____

26) $5\frac{3}{4} + 1\frac{1}{6}$ _____

27) $3\frac{5}{8} + 11\frac{1}{2}$ _____

28) $4\frac{3}{10} - 2\frac{4}{5}$ _____

29) Lucas watched his little sister for $2\frac{1}{2}$ hours on Friday, $3\frac{2}{3}$ hours on Saturday, and $1\frac{3}{4}$ hours on Sunday. How many hours did Lucas watch his little sister?

OVER →

5-5 Multiplying Fractions and Mixed Numbers (p. 252-257)

Multiply. Write in simplest form.

30) $\frac{3}{5} \times \frac{2}{7}$ _____

31) $\frac{5}{12} \times \frac{4}{9}$ _____

32) $\frac{3}{5} \times \frac{10}{21}$ _____

33) $4 \times \frac{13}{20}$ _____

34) $2\frac{1}{3} \times \frac{3}{4}$ _____

35) $4\frac{1}{2} \times 2\frac{1}{12}$ _____

36) An average slice of American cheese is about $\frac{1}{8}$ inch thick. What is the height of a package containing 20 slices?

5-7 Dividing Fractions and Mixed Numbers (p. 265-270)

Divide. Write in simplest form.

37) $\frac{3}{5} \div \frac{6}{7}$ _____

38) $4 \div \frac{2}{3}$ _____

39) $2\frac{3}{4} \div \frac{5}{6}$ _____

40) $\frac{2}{5} \div 3$ _____

41) $4\frac{3}{10} \div 2\frac{1}{5}$ _____

42) $\frac{2}{7} \div \frac{8}{21}$ _____

43) How many $\frac{1}{8}$ inch lengths are in $6\frac{3}{4}$ inches?

**FINALLY
DONE**



Name: _____ Date: _____ Period: _____

Chapter 5 (Applying Fractions)

Bringing It All Together #2

Estimate.

1) $\frac{1}{2} + \frac{3}{8}$ _____

2) $6\frac{2}{9} - 5\frac{1}{7}$ _____

3) $\frac{13}{15} \times \frac{1}{5}$ _____

4) $15\frac{6}{7} \div 7\frac{2}{3}$ _____

5) $2\frac{3}{47} \times 1\frac{1}{8}$ _____

6) $5\frac{5}{6} + 1\frac{1}{9}$ _____

Change the following numbers to their reciprocals:

7) $\frac{2}{9}$ _____

8) $2\frac{5}{7}$ _____

9) 4 _____

10) $12\frac{3}{5}$ _____

11) 28 _____

12) $\frac{1}{30}$ _____

Find the multiplicative inverse:

13) 122 _____

14) $5\frac{7}{11}$ _____

15) $\frac{6}{39}$ _____

For questions 16-31, add, subtract, multiply, or divide.

Write in simplest form. Show work!

16) $5\frac{4}{7} + 6\frac{5}{7}$ _____

17) $5\frac{2}{9} - 3\frac{7}{9}$ _____

18) $6 \times 1\frac{3}{4}$ _____

19) $\frac{7}{16} \div \frac{3}{4}$ _____

OVER →

$$20) \frac{3}{5} + \frac{4}{15} \underline{\hspace{2cm}}$$

$$21) \frac{2}{3} \times 4\frac{1}{3} \underline{\hspace{2cm}}$$

$$22) 5\frac{1}{3} \div 2\frac{2}{9} \underline{\hspace{2cm}}$$

$$23) \frac{5}{14} - \frac{2}{21} \underline{\hspace{2cm}}$$

$$24) 6\frac{2}{9} \times 6\frac{3}{7} \underline{\hspace{2cm}}$$

$$25) 8\frac{3}{4} \div 7 \underline{\hspace{2cm}}$$

$$26) 5\frac{3}{8} + 8 \underline{\hspace{2cm}}$$

$$27) 6 - 2\frac{4}{7} \underline{\hspace{2cm}}$$

$$28) 50\frac{1}{4} \div 4\frac{3}{16} \underline{\hspace{2cm}}$$

$$29) 8\frac{1}{2} - 5\frac{5}{6} \underline{\hspace{2cm}}$$

$$30) 7\frac{5}{9} + 3\frac{5}{6} \underline{\hspace{2cm}}$$

$$31) \frac{35}{48} \times \frac{12}{21} \underline{\hspace{2cm}}$$

OVER \longrightarrow

For questions 32-36: add, subtract, multiply, or divide.
Write in simplest form. Show work!

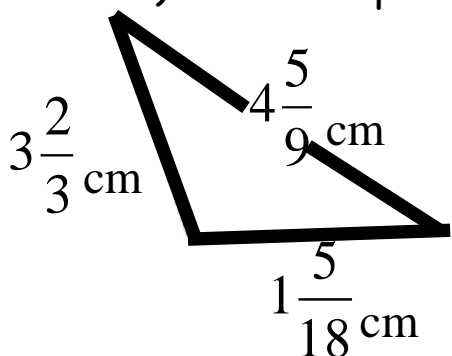
32) Hugo has $2\frac{1}{2}$ pounds of dog food. He plans to split it equally among his 7 dogs. How much dog food will each dog receive?

33) Anna was to make 4 sets of curtains. Each set requires $5\frac{1}{8}$ yards of fabric. How much fabric does she need?

34) Libby practiced guitar $1\frac{2}{5}$ hours on Tuesday and $\frac{3}{10}$ hour on Friday. How much did she practice in all those two days?

35) If Silvia is $5\frac{1}{4}$ feet tall and Max is $5\frac{1}{6}$ feet tall. How much shorter is Max than Silvia?

36) Find the perimeter of the figure.



**FINALLY
DONE**

