

13. $(70) \times (20) = (1,400)$
 $67 \times 18 = 1,206$
14. $(30) \times (40) = (1,200)$
 $32 \times 39 = 1,248$
15. $15 \times \$33 = \495
16. $80 \div 10 = 8$
 $8 \times 9 = 72$ posts
17. $\frac{3}{6} + \frac{1}{6} = \frac{4}{6}$ gone
 $\frac{6}{6} - \frac{4}{6} = \frac{2}{6}$ left
18. $\frac{1}{6} - \frac{1}{12} = \frac{12}{72} - \frac{6}{72} = \frac{6}{72}$ ft
19. 500
20. $6 + 6 + 6 + 6 = 24$ yd

Systematic Review 6F

1. $\frac{20}{30} + \frac{6}{30} = \frac{26}{30}$
2. $\frac{6}{12} + \frac{4}{12} = \frac{10}{12}$
3. $\frac{22}{77} + \frac{21}{77} = \frac{43}{77}$
4. $\frac{5}{10} - \frac{2}{10} = \frac{3}{10}$
5. $\frac{8}{12} - \frac{3}{12} = \frac{5}{12}$
6. $\frac{18}{72} - \frac{16}{72} = \frac{2}{72}$
7. $\frac{5}{6} = \frac{10}{12} = \frac{15}{18} = \frac{20}{24}$
8. $\frac{1}{10} = \frac{2}{20} = \frac{3}{30} = \frac{4}{40}$
9. $28 \div 7 = 4$;
 $4 \times 3 = 12$
10. $54 \div 6 = 9$; $9 \times 1 = 9$
11. $8 \div 8 = 1$; $1 \times 4 = 4$
12. $(70) \times (90) = (6,300)$
 $73 \times 89 = 6,497$
13. $(30) \times (90) = (2,700)$
 $26 \times 91 = 2,366$
14. $(50) \times (10) = (500)$
 $47 \times 11 = 517$
15. $18 \times 12 = 216$ eggs
16. $312 \times 3 = 936$ mi

17. $\frac{4}{9} + \frac{3}{6} = \frac{24}{54} + \frac{27}{54} = \frac{51}{54}$ of a loaf
18. $60 \div 6 = 10$
 $5 \times 10 = 50$ min
19. 300
20. $13 + 18 + 13 + 18 = 62$ in
 $2 \times 24 = 48$ in
 $62 \text{ in} > 48 \text{ in}$; no

Lesson Practice 7A

1. done
2. $\frac{9}{15} < \frac{10}{15}$, so $\frac{3}{5} < \frac{2}{3}$
3. done
4. $\frac{18}{30} < \frac{20}{30}$, so $\frac{3}{5} < \frac{4}{6}$
5. $\frac{8}{12} < \frac{9}{12}$, so $\frac{2}{3} < \frac{3}{4}$
6. $\frac{6}{15} > \frac{5}{15}$, so $\frac{2}{5} > \frac{1}{3}$

Lesson Practice 7B

1. done
2. $\frac{12}{18} < \frac{15}{18}$, so $\frac{2}{3} < \frac{5}{6}$
less than
3. $\frac{12}{18} > \frac{9}{18}$, so $\frac{2}{3} > \frac{3}{6}$
greater than
4. $\frac{5}{10} > \frac{4}{10}$, so $\frac{1}{2} > \frac{2}{5}$
greater than
5. $\frac{6}{18} = \frac{6}{18}$, so $\frac{1}{3} = \frac{2}{6}$
equal
6. $\frac{10}{20} > \frac{4}{20}$, so $\frac{2}{4} > \frac{1}{5}$
greater than
7. $\frac{5}{10} > \frac{4}{10}$, so $\frac{1}{2} > \frac{2}{5}$
Trisha received more votes.
8. $\frac{6}{18} < \frac{12}{18}$, so $\frac{2}{6} < \frac{2}{3}$
Donald ran farther.

Lesson Practice 7C

1. $\frac{24}{30} > \frac{20}{30}$, so $\frac{4}{5} > \frac{4}{6}$
greater than
2. $\frac{8}{12} < \frac{12}{12}$, so $\frac{4}{6} < \frac{2}{2}$
less than
3. $\frac{21}{56} < \frac{32}{56}$, so $\frac{3}{8} < \frac{4}{7}$
less than
4. $\frac{6}{27} < \frac{9}{27}$, so $\frac{2}{9} < \frac{1}{3}$
less than
5. $\frac{18}{24} < \frac{20}{24}$
6. $\frac{12}{24} = \frac{12}{24}$
7. $\frac{10}{20} > \frac{6}{20}$
8. $\frac{28}{35} < \frac{30}{35}$
9. $\frac{6}{24} > \frac{4}{24}$ Shirley ate more pizza.
10. $\frac{36}{60} > \frac{35}{60}$ The land on the east side is larger.

Systematic Review 7D

1. $\frac{6}{18} < \frac{9}{18}$
2. $\frac{10}{16} > \frac{8}{16}$
3. $\frac{12}{48} = \frac{12}{48}$
4. $\frac{12}{24} + \frac{4}{24} = \frac{16}{24}$
5. $\frac{48}{80} - \frac{30}{80} = \frac{18}{80}$
6. $\frac{14}{63} + \frac{45}{63} = \frac{59}{63}$
7. $\frac{6}{8} = \frac{12}{16} = \frac{18}{24} = \frac{24}{32}$
8. $6 \div 2 = 3$;
 $3 \times 1 = 3$
9. $42 \div 6 = 7$;
 $7 \times 3 = 21$
10. $24 \div 8 = 3$;
 $3 \times 3 = 9$
11. done

12. $23 \div 5 = 4\frac{3}{5}$
13. $59 \div 7 = 8\frac{3}{7}$
14. $17 \div 4 = 4\frac{1}{4}$ yd
15. $\frac{16}{56} < \frac{35}{56}$ Penny did the most.
 $\frac{16}{56} + \frac{35}{56} = \frac{51}{56}$ done
 $\frac{56}{56} - \frac{51}{56} = \frac{5}{56}$ left
16. $\frac{5}{56}$ of 56;
 $56 \div 56 = 1$; $1 \times 5 = 5$ chores
17. $\frac{3}{12} + \frac{4}{12} = \frac{7}{12}$ of a cup
18. $\frac{21}{24} - \frac{8}{24} = \frac{13}{24}$ in

Systematic Review 7E

1. $\frac{9}{15} > \frac{5}{15}$
2. $\frac{12}{18} > \frac{3}{18}$
3. $\frac{108}{120} > \frac{70}{120}$
4. $\frac{5}{10} + \frac{4}{10} = \frac{9}{10}$
5. $\frac{6}{12} - \frac{4}{12} = \frac{2}{12}$
6. $\frac{15}{40} + \frac{24}{40} = \frac{39}{40}$
7. $\frac{1}{10} = \frac{2}{20} = \frac{3}{30} = \frac{4}{40}$
8. $32 \div 8 = 4$; $4 \times 7 = 28$
9. $21 \div 7 = 3$; $3 \times 2 = 6$
10. $20 \div 4 = 5$; $5 \times 3 = 15$
11. $32 \div 6 = 5\frac{2}{6}$
12. $19 \div 8 = 2\frac{3}{8}$
13. $48 \div 5 = 9\frac{3}{5}$
14. $(20) \times (20) = (400)$
 $21 \times 16 = 336$
15. $(30) \times (30) = (900)$
 $34 \times 29 = 986$

16. $(80) \times (10) = (800)$
 $75 \times 12 = 900$
17. $\frac{7}{42} + \frac{6}{42} = \frac{13}{42}$ of the cars
18. $28 \div 7 = 4$
 $4 \times 4 = 16$ games
19. $8 + 10 + 8 + 10 = 36$
 $\frac{1}{4}$ of 36 = 9 yd
20. $\frac{8}{16} > \frac{6}{16}$, so $\frac{1}{2} > \frac{3}{8}$

Systematic Review 7F

1. $\frac{60}{120} = \frac{60}{120}$
2. $\frac{10}{35} < \frac{21}{35}$
3. $\frac{3}{6} < \frac{4}{6}$
4. $\frac{10}{15} + \frac{3}{15} = \frac{13}{15}$
5. $\frac{16}{24} - \frac{6}{24} = \frac{10}{24}$
6. $\frac{45}{54} + \frac{6}{54} = \frac{51}{54}$
7. $\frac{3}{4} = \frac{6}{8} = \frac{9}{12} = \frac{12}{16}$
8. $10 \div 5 = 2$; $2 \times 3 = 6$
9. $12 \div 4 = 3$; $3 \times 1 = 3$
10. $24 \div 6 = 4$; $4 \times 4 = 16$
11. $13 \div 3 = 4\frac{1}{3}$
12. $39 \div 4 = 9\frac{3}{4}$
13. $58 \div 9 = 6\frac{4}{9}$
14. $(60) \times (50) = (3,000)$
 $64 \times 51 = 3,264$
15. $(50) \times (20) = (1,000)$
 $45 \times 19 = 855$
16. $(80) \times (40) = (3,200)$
 $82 \times 37 = 3,034$
17. $8 + 9 + 10 = 27$ ft
18. $\frac{25}{30} > \frac{24}{30}$ so $\frac{5}{6} > \frac{4}{5}$

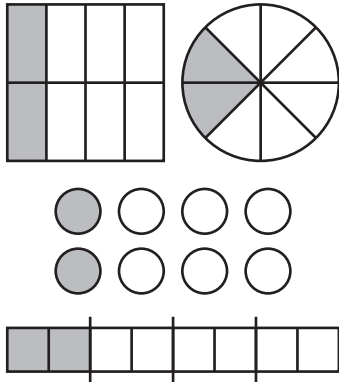
19. $30 \div 6 = 5$
 $5 \times 5 = 25$ questions for Kiley
 $30 \div 5 = 6$
 $6 \times 4 = 24$ questions for Casey
 $25 > 24$; yes
20. $\frac{20}{32} < \frac{24}{32}$, so $\frac{5}{8} < \frac{3}{4}$

Lesson Practice 8A

1. done
2. $\frac{6}{30} + \frac{5}{30} = \frac{11}{30}$
 $\frac{11}{30} + \frac{1}{2} = \frac{22}{60} + \frac{30}{60} = \frac{52}{60}$
3. $\frac{3}{24} + \frac{8}{24} = \frac{11}{24}$
 $\frac{11}{24} + \frac{1}{6} = \frac{66}{144} + \frac{24}{144} = \frac{90}{144}$
4. $\frac{6}{24} + \frac{20}{24} = \frac{26}{24}$
 $\frac{26}{24} + \frac{1}{3} = \frac{78}{72} + \frac{24}{72} = \frac{102}{72} = 1\frac{30}{72}$
Note: at this point, the final step is optional when working with fractions greater than one.
5. done
6. done
7. $\frac{3 \times 6 \times 10}{7 \times 6 \times 10} + \frac{1 \times 7 \times 10}{6 \times 7 \times 10} + \frac{3 \times 7 \times 6}{10 \times 7 \times 6} =$
 $\frac{180}{420} + \frac{70}{420} + \frac{126}{420} = \frac{376}{420}$
8. $\frac{4 \times 2}{5 \times 2} + \frac{3}{10} + \frac{1 \times 5}{2 \times 5} =$
 $\frac{8}{10} + \frac{3}{10} + \frac{5}{10} = \frac{16}{10} = 1\frac{6}{10}$
9. $\frac{5}{8} + \frac{7}{8} + \frac{4}{8} = \frac{16}{8} = 2$ ft
10. $\frac{5}{40} + \frac{8}{40} = \frac{13}{40}$
 $\frac{13}{40} + \frac{1}{4} = \frac{52}{160} + \frac{40}{160} = \frac{92}{160}$
or $\frac{13}{40} + \frac{10}{40} = \frac{23}{40}$ of a tank

The student may begin to use shortcuts that yield fractions different from the answers given. As long as the fraction is equivalent to the given answer, it is correct. For example, $\frac{2}{5}$ is the same as $\frac{4}{10}$.

3.



$$\frac{1}{4} = \frac{2}{8}$$

4. done
5. done
6. $3 \times (2) = 6$
7. Answers will vary.
8. $5 \times (6) = 30$
9. Answers will vary.
10. $(3) \times (6) = 18$
11. Answers will vary.

Application and Enrichment 7G

Answer should be "READ FOR MEANING."

1. addition
2. addition
3. subtraction
4. addition
5. subtraction
6. subtraction
7. addition
8. subtraction
9. addition
10. addition

Application and Enrichment 8G

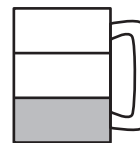
Note: Depending on the method the student uses to add the fractions, the final answer may differ. As long as the numerator and denominator are the same in the final answer (e.g., $\frac{4}{4}$, $\frac{8}{8}$, $\frac{64}{64}$), the answer is correct.

1. $\frac{1}{4} + \frac{1}{4} + \frac{1}{8} + \frac{1}{8} + \frac{1}{4} =$
 $\frac{1}{8} + \frac{1}{8} + \frac{1}{4} + \frac{1}{4} + \frac{1}{4} =$
 $\frac{2}{8} + \frac{3}{4} =$
 $\frac{8}{32} + \frac{24}{32} =$
 $\frac{32}{32} = 1$
2. $\frac{1}{4} + \frac{1}{8} + \frac{1}{8} + \frac{1}{2} =$
 $\frac{1}{8} + \frac{1}{8} + \frac{1}{4} + \frac{1}{2} =$
 $\frac{2}{8} + \frac{1}{4} + \frac{1}{2} =$
 $\frac{8}{32} + \frac{8}{32} + \frac{1}{2} =$
 $\frac{16}{32} + \frac{1}{2} =$
 $\frac{32}{64} + \frac{32}{64} =$
 $\frac{64}{64} = 1$
3. $\frac{1}{4} + \frac{1}{2} + \frac{1}{8} + \frac{1}{8} =$
 $\frac{1}{8} + \frac{1}{8} + \frac{1}{4} + \frac{1}{2} =$
 $\frac{2}{8} + \frac{1}{4} + \frac{1}{2} =$
 $\frac{2}{8} + \frac{2}{8} + \frac{4}{8} =$
 $\frac{8}{8} = 1$

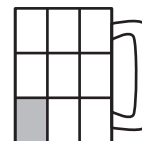
Note that, after rearranging the fractions, problem 3 was the same as problem 2. We used a different method to solve in problem 3. Since both methods produced answers equivalent to 1, both methods are correct and may be used with either problem.

Application and Enrichment 9G

1. What the recipe calls for:



What Mary needs:



- $\frac{1}{3} \times \frac{1}{3} = \frac{1}{9}$ of a cup
2. $2 \times \frac{1}{3} = \frac{2}{3}$ of a cup
3. Juncos divided into 4 groups of 3 each; 3 groups = 9 juncos;
 $\frac{3}{4} \times 12 = 9$ juncos