5. $12 \div 3 = \underline{4}$
6. $54 \div 9 = \underline{6}$
7. $24 \div 3 = \underline{8}$
8. $25 \div 5 = \underline{5}$
9. $14 \div 2 = \underline{7}$
10. $8 \div 1 = \underline{8}$
11. $\frac{81}{9} = \underline{9}$
12. $\frac{21}{3} = \underline{7}$
13. $4 \times \underline{6} = 24$
14. $6 \times \underline{10} = 60$
15. $6 \times \underline{7} = 42$
16. $4 \times \underline{7} = 28$
17. $\begin{array}{r} 71 \\ +62 \\ \hline 133 \end{array}$
18. $\begin{array}{r} {}^{3}\cancel{4}\,{}^{1}3 \\ -\ 2\ 5 \\ \hline 1\ 8 \end{array}$
19. $\begin{array}{r} 92 \\ +11 \\ \hline 103 \end{array}$
20. $\begin{array}{r} {}^{1} \\ 57 \\ +46 \\ \hline 103 \end{array}$
21. parallel
22. $5 \times 3 = 15$ sq yd

Systematic Review 7F

1. $6 \times 7 = 42$ sq ft
2. $3 \times 8 = 24$ sq in
3. $10 \times 9 = 90$ sq ft
4. $3 \times 3 = 9$ sq mi
5. $27 \div 9 = \underline{3}$
6. $15 \div 3 = \underline{5}$
7. $30 \div 5 = \underline{6}$
8. $16 \div 2 = \underline{8}$
9. $72 \div 9 = \underline{8}$
10. $90 \div 10 = \underline{9}$
11. $\frac{20}{2} = \underline{10}$
12. $\frac{45}{9} = \underline{5}$
13. $4 \times \underline{8} = 32$
14. $6 \times \underline{8} = 48$
15. $6 \times \underline{6} = 36$
16. $4 \times \underline{4} = 16$
17. $\begin{array}{r} {}^{1}\cancel{2}\,{}^{1}1 \\ -\ 9 \\ \hline 1\ 2 \end{array}$
18. $\begin{array}{r} {}^{1} \\ 76 \\ +54 \\ \hline 130 \end{array}$
19. $\begin{array}{r} 33 \\ +45 \\ \hline 78 \end{array}$
20. $\begin{array}{r} {}^{5}\cancel{6}\,{}^{1}4 \\ -\ 2\ 5 \\ \hline 3\ 9 \end{array}$
21. $14 \div 2 = 7$ qt
22. $30 - 16 = 14$ books

Lesson Practice 8A

1. 6,12,18;$\underline{3}$
2. 6,12,18,24,30,36,42,48,54;$\underline{9}$
3. 6,12;$\underline{2}$
4. 6,12,18,24,30,36,42,48,54,60;$\underline{10}$
5. $12 \div 6 = \underline{2}$
6. $6 \div 6 = \underline{1}$
7. $24 \div 6 = \underline{4}$
8. $36 \div 6 = \underline{6}$
9. $42 \div 6 = \underline{7}$
10. $18 \div 6 = \underline{3}$
11. $60 \div 6 = \underline{10}$
12. $24 \div 6 = \underline{4}$
13. $42 \div 6 = \underline{7}$
14. $\frac{54}{6} = \underline{9}$
15. $\frac{30}{6} = \underline{5}$
16. $48 \div \underline{6} = 8$

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17. $24 \div 6 = 4$ ants
18. $\$30 \div 6 = \$5$ a day

Lesson Practice 8B

1. $6, 12, 18, 24, 30; \underline{5}$
2. $6; \underline{1}$
3. $6, 12, 18, 24; \underline{4}$
4. $6, 12, 18, 24, 30, 36, 42, 48; \underline{8}$
5. $36 \div 6 = \underline{6}$
6. $60 \div 6 = \underline{10}$
7. $30 \div 6 = \underline{5}$
8. $18 \div 6 = \underline{3}$
9. $54 \div 6 = \underline{9}$
10. $42 \div 6 = \underline{7}$
11. $6 \div 6 = \underline{1}$
12. $24 \div 6 = \underline{4}$
13. $18 \div 6 = \underline{3}$
14. $\frac{30}{6} = \underline{5}$
15. $\frac{48}{6} = \underline{8}$
16. $12 \div \underline{6} = 2$
17. $60 \div 6 = 10$ songs
18. $\$54 \div 6 = \$9$ each hour

Lesson Practice 8C

1. $6, 12, 18, 24, 30, 36, 42, 48, 54; \underline{9}$
2. $6, 12, 18, 24, 30, 36; \underline{6}$
3. $6, 12, 18, 24, 30, 36, 42, 48, 54, 60; \underline{10}$
4. $6, 12, 18, 24, 30, 36, 42; \underline{7}$
5. $18 \div 6 = \underline{3}$
6. $54 \div 6 = \underline{9}$
7. $6 \div 6 = \underline{1}$
8. $30 \div 6 = \underline{5}$
9. $12 \div 6 = \underline{2}$
10. $24 \div 6 = \underline{4}$
11. $42 \div 6 = \underline{7}$
12. $36 \div 6 = \underline{6}$
13. $48 \div 6 = \underline{8}$
14. $\frac{60}{6} = \underline{10}$
15. $\frac{54}{6} = \underline{9}$
16. $\frac{12}{6} = \underline{2}$
17. $\$48 \div 6 = \$8$ per friend
18. $18 \div 6 = 3$ ft
    $3 \div 3 = 1$ yd

Systematic Review 8D

1. $18 \div 6 = \underline{3}$
2. $42 \div 6 = \underline{7}$
3. $54 \div 6 = \underline{9}$
4. $24 \div 3 = \underline{8}$
5. $25 \div 5 = \underline{5}$
6. $18 \div 2 = \underline{9}$
7. $54 \div 9 = \underline{6}$
8. $60 \div 10 = \underline{6}$
9. $48 \div 6 = \underline{8}$
10. $72 \div 9 = \underline{8}$
11. $\frac{21}{3} = \underline{7}$
12. $\frac{35}{5} = \underline{7}$
13. $12 \times 6 = 72$ sq ft
14. $7 \times 3 = 21$ sq in
15. $4 \times 4 = 16$ sq in
16. $$\begin{array}{r} 23 \\ \times 36 \\ \hline {}^{1\,1} \\ 128 \\ 69 \\ \hline 828 \end{array} \qquad \begin{array}{r} 20+3 \\ \times \quad 30+6 \\ \hline {}^{100} \quad {}^{10} \\ 100+20+8 \\ 600+90+ \\ \hline 800+20+8 \end{array}$$
17. $$\begin{array}{r} 78 \\ \times 34 \\ \hline {}^{1} \\ {}^{2\,3} \\ 282 \\ 214 \\ \hline 2652 \end{array} \qquad \begin{array}{r} 70+8 \\ \times 30+4 \\ \hline {}^{100}200 \quad 30 \\ 200+80+2 \\ 2000+100+40 \\ \hline 2000+600+50+2 \end{array}$$
18. $$\begin{array}{r} 65 \\ \times 15 \\ \hline {}^{2} \\ 305 \\ 65 \\ \hline 975 \end{array} \qquad \begin{array}{r} 60+5 \\ \times 10+5 \\ \hline 20 \\ 300+00+5 \\ 600+50+ \\ \hline 900+70+5 \end{array}$$

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19. $12 \times 15 = 180$ baby mice

20. $61 - 45 = 16$ sq ft

21. $36 \div 6 = 6$ afghans

22. $\$39 + \$28 = \$67$

Systematic Review 8E

1. $12 \div 6 = \underline{2}$

2. $60 \div 6 = \underline{10}$

3. $42 \div 6 = \underline{7}$

4. $24 \div 6 = \underline{4}$

5. $27 \div 9 = \underline{3}$

6. $40 \div 5 = \underline{8}$

7. $20 \div 10 = \underline{2}$

8. $12 \div 3 = \underline{4}$

9. $15 \div 3 = \underline{5}$

10. $30 \div 6 = \underline{5}$

11. $\frac{6}{6} = \underline{1}$

12. $\frac{12}{2} = \underline{6}$

13.
$$\begin{array}{r} {\scriptstyle 1} \\ 13 \\ +19 \\ \hline 32 \end{array}$$

14.
$$\begin{array}{r} {\scriptstyle 1} \\ 28 \\ +49 \\ \hline 77 \end{array}$$

15.
$$\begin{array}{r} {\scriptstyle 6}\cancel{7}\,{\scriptstyle 12} \\ -\ 2\ 6 \\ \hline 4\ 6 \end{array}$$

16.
$$\begin{array}{r} {\scriptstyle 3}\cancel{4}\,{\scriptstyle 17} \\ -\ 3\ 8 \\ \hline 9 \end{array}$$

17.
$$\begin{array}{r} 45 \\ \times 22 \\ \hline {\scriptstyle 1}\ 80 \\ 80 \\ \hline 990 \end{array} \qquad \begin{array}{r} 40+5 \\ \times 20+2 \\ \hline {\scriptstyle 10}\quad 80+0 \\ 800+00 \\ \hline 900+90+0 \end{array}$$

18.
$$\begin{array}{r} 16 \\ \times 14 \\ \hline {\scriptstyle 2}\ 44 \\ 16 \\ \hline 224 \end{array} \qquad \begin{array}{r} 10+6 \\ \times 10+4 \\ \hline {\scriptstyle 20}\quad 100+40+4 \\ 100\ \ 60+ \\ \hline 200+20+4 \end{array}$$

19.
$$\begin{array}{r} 39 \\ \times\ 5 \\ \hline {\scriptstyle 1}\ 4 \\ 55 \\ \hline 195 \end{array} \qquad \begin{array}{r} 30+9 \\ \times\quad 5 \\ \hline {\scriptstyle 100}\quad 40 \\ +50+5 \\ \hline 100+90+5 \end{array}$$

20. $30 \div 3 = 10$ yd

$\$6 \times 10 = \$60$

21. $14 \times 18 = 252$ sq in

22. $46 + 28 = 74$ mi

Systematic Review 8F

1. $48 \div 6 = \underline{8}$

2. $18 \div 6 = \underline{3}$

3. $12 \div 6 = \underline{2}$

4. $36 \div 6 = \underline{6}$

5. $72 \div 9 = \underline{8}$

6. $54 \div 6 = \underline{9}$

7. $27 \div 3 = \underline{9}$

8. $45 \div 5 = \underline{9}$

9. $70 \div 10 = \underline{7}$

10. $16 \div 2 = \underline{8}$

11. $\frac{42}{6} = \underline{7}$

12. $\frac{60}{6} = \underline{10}$

13.
$$\begin{array}{r} {\scriptstyle 1}\,85 \\ +18 \\ \hline 103 \end{array}$$

14.
$$\begin{array}{r} {\scriptstyle 3}\cancel{4}\,{\scriptstyle 17} \\ -\ 3\ 8 \\ \hline 9 \end{array}$$

15.
$$\begin{array}{r} {\scriptstyle 1}49 \\ +21 \\ \hline 70 \end{array}$$

16.
$$\begin{array}{r} {\scriptstyle 5}\cancel{6}\,{\scriptstyle 14} \\ -\ 2\ 5 \\ \hline 3\ 9 \end{array}$$

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17.
$$\begin{array}{r} 33 \\ \times 24 \\ \hline 1 \\ 122 \\ 66 \\ \hline 792 \end{array} \qquad \begin{array}{r} 30+3 \\ \times 20+4 \\ \hline 10 \\ 100+20+2 \\ 600+60 \\ \hline 700+90+2 \end{array}$$

18.
$$\begin{array}{r} 44 \\ \times 14 \\ \hline 11 \\ 166 \\ 44 \\ \hline 616 \end{array} \qquad \begin{array}{r} 40+4 \\ \times 10+4 \\ \hline 100 \quad 10 \\ 100+60+6 \\ 400+40 \\ \hline 600+10+6 \end{array}$$

19.
$$\begin{array}{r} 15 \\ \times 15 \\ \hline 12 \\ 55 \\ 15 \\ \hline 225 \end{array} \qquad \begin{array}{r} 10+5 \\ \times 10+5 \\ \hline 100 \quad 20 \\ +50+5 \\ 100+50 \\ \hline 200+20+5 \end{array}$$

20. $24 \div 6 = 4$ turns

21. $\$35 \times 14 = \$490$

22. $42 \div 6 = 7$ ft

Lesson Practice 9A

1. done

2. $4 \times 4 = 16$
$16 \div 2 = 8$ sq in

3. $2 \times 7 = 14$
$14 \div 2 = 7$ sq mi

4. $3 \times 6 = 18$
$18 \div 2 = 9$ sq ft

5. $4 \times 5 = 20$
$20 \div 2 = 10$ sq in

6. $9 \times 2 = 18$
$18 \div 2 = 9$ sq ft

7. $8 \times 2 = 16$
$16 \div 2 = 8$ sq yd

8. $1 \times 2 = 2$
$2 \div 2 = 1$ sq in

9. $2 \times 2 = 4$
$4 \div 2 = 2$ sq mi

10. $2 \times 4 = 8$
$8 \div 2 = 4$ sq in

Lesson Practice 9B

1. $3 \times 4 = 12$
$12 \div 2 = 6$ sq ft

2. $2 \times 6 = 12$
$12 \div 2 = 6$ sq in

3. $1 \times 8 = 8$
$8 \div 2 = 4$ sq mi

4. $2 \times 10 = 20$
$20 \div 2 = 10$ sq ft

5. $2 \times 5 = 10$
$10 \div 2 = 5$ sq in

6. $10 \times 1 = 10$
$10 \div 2 = 5$ sq in

7. $2 \times 3 = 6$
$6 \div 2 = 3$ sq yd

8. $3 \times 6 = 18$
$18 \div 2 = 9$ sq ft

9. $3 \div 3 = 1$ yd
$6 \div 3 = 2$ yd

10. $2 \times 1 = 2$
$2 \div 2 = 1$ sq yd

Lesson Practice 9C

1. $1 \times 4 = 4$
$4 \div 2 = 2$ sq ft

2. $2 \times 5 = 10$
$10 \div 2 = 5$ sq in

3. $2 \times 9 = 18$
$18 \div 2 = 9$ sq mi

4. $4 \times 4 = 16$
$16 \div 2 = 8$ sq ft

5. $2 \times 8 = 16$
$16 \div 2 = 8$ sq in

6. $2 \times 4 = 8$
$8 \div 2 = 4$ sq in

7. $2 \times 2 = 4$
$4 \div 2 = 2$ sq yd

8. $2 \times 7 = 14$
$14 \div 2 = 7$ sq ft

9. $4 \times 3 = 12$
$12 \div 2 = 6$ sq ft
6 plants

10. $6 \times 3 = 18$
$18 \div 2 = 9$ sq yd

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Application and Enrichment 1G

wind-up mouse

1. Final answer is 120 (given).
2. Final answer is 486.
3. Final answer is 280.
4. Final answer is 576.

Application and Enrichment 2G

space shuttle

1. 10
2. 9
3. 2
4. 5
5. 2
6. 5
7. 1
8. 10
9. 3
10. 5
11. 2
12. 2
13. 4
14. 3
15. 2
16. 1
17. 4
18. 5
19. 8
20. 7

Application and Enrichment 3G

boat

1. divide
2. multiply
3. divide
4. divide
5. multiply

Application and Enrichment 4G

music box figure

1. $5A = 15$ or $15 \div 5 = A$
   $A = 3$
2. $3B = 30$ or $30 \div 3 = B$
   $B = 10$
   Students may use any letter they like for the unknown.
3. $2D = 12$ or $12 \div 2 = D$
   $D = 6$
4. $8H = 80$ or $80 \div 8 = H$
   $H = 10$

Application and Enrichment 5G

1. line segment —
2. point •
3. ray →
4. line ↔
5. point
6. line segment
7. ray
8. line

Application and Enrichment 6G

clock

These answers may be in any order:
8×3, 6×4, 4×6, 3×8

Application and Enrichment 7G

6 inches × 4 inches = 24 square inches

Application and Enrichment 8G

airplane

1. Put a black X on the four shapes that do not have four sides.
2. Five parallelograms; they all have two sets of parallel sides.

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3. Three rectangles; they all have four right angles.
4. One square; all four sides are the same length.
   The unmarked figure is a trapezoid.

Application and Enrichment 9G

1. 90° + 90° + 90° + 90° = 360°
   Yes
2. 3 × 45° = 135° or 45° + 45° + 45° = 135°
   Smaller angles may be added to find the measure of larger angles.

1. There are two obtuse angles.
2. There are two right angles.
3. Use the definitions to check the angles. They may be turned in any direction.
4. 90° – 75° = 15°, so D = 15°

Application and Enrichment 10G

hot air balloon

1. always
2. more likely
3. always
4. never
5. less likely

Application and Enrichment 11G

1. Smith:
   1 + 2 + 7 + 10 = 20; 20 ÷ 4 = 5
   Jones:
   4 + 5 + 6 = 15; 15 ÷ 3 = 5
   Smith = Jones
2. Chloe:
   6 + 7 + 8 = 21; 21 ÷ 3 = 7
   Tucker:
   1 + 2 + 12 = 15; 15 ÷ 3 = 5
   Chloe > Tucker
3. Timothy:
   1 + 2 + 3 = 6 ÷ 3 = 2
   Peter:
   0 + 2 + 10 = 12; 12 ÷ 3 = 4
   Timothy < Peter

number of row	1	2	3	4	5	6	7	8
number of boxes in that row	1	2	3	4	5	6	7	8
total number of boxes	1	3	6	10	15	21	28	36

1. They are the same.
2. Sample answers: Add the number of boxes in each new row to the total number of boxes in the previous rows; look at the bottom row and add a number that is one more each time: 1 + **2** = 3, 3 + **3** = 6, 6 + **4** = 10, 10 + **5** = 15, etc. (There may be other ways to describe the patterns in the chart.)

number of triangles	1	2	3	4	5	6	7
number of toothpicks	3	5	7	9	11	13	15

3. 13 toothpicks
4. 21 toothpicks. Sample answers: Each new triangle needs two more toothpicks; double the number of triangles and add one to find the number of toothpicks needed. (Experimenting with this is more important than finding the exact answer without help.)

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