

Answers to most of worksheet answers from this unit are on the website [scaseyjones.com](http://scaseyjones.com).

p. 309 #1–7

1.
  - a) 360
  - b) 900
  - c) 1080
  - d) 1800
  - e) 16,380
2.  $m\angle E = 40$
3.
  - a) 5
  - b) 9
  - c) 2
  - d) 0
4.  $m\angle 1 = 84$
5.
  - a) 70
  - b) 45
  - c) 65
6.
  - a) 360
  - b) 360
  - c) 360
  - d) 360
7. 3



p. 315 #1e, 2c, 2d, 3d, 3e, 4c, 4d, 13, 17

1. e) 15 15/23
2. c) 140  
d) 150
3. d) 180  
e) 48
4. c) 15  
d) 20
13. a) A  
b) S  
c) A  
d) S  
e) S  
f) N
17.  $x = 30, y = 12$



p. 251 #1, 8–11, 13, 17

1.
  - a) If the diagonals of a quad bisect each other, then it is a parallelogram.
  - b) If one pair of opposite sides of a quad is parallel and congruent, then it is a parallelogram.
  - c) If the opposite sides of a quad are congruent, then it is a parallelogram.
  - d) Cannot be proved to be a parallelogram.
  - e) If the opposite sides of a quad are parallel, then it is a parallelogram.
8. 10
9.
  - a) 9
  - b) 17
  - c) 56
10. 35; 145
11.
  - a) S
  - b) S
  - c) A
  - d) A
13. Show that opposite angles are congruent.
17. 145



p. 258 #2, 3, 5, 12, 13, 17

2. If  $\overline{AB} \cong \overline{DC}$ , then  $2x + 5 = 4x - 17 \Rightarrow x = 11$  and  $BC = 3x - 2 = 31$
3. 21
5. a)  $18x^2 - 45x$   
b)  $22x - 10$   
c)  $A = 128.5; P = 82.4$
12. 10
13. a) parallelogram  
b) trapezoid  
c) isosceles trapezoid  
d) rectangle  
e) rectangle  
f) rhombus  
g) kite  
h) quadrilateral



p. 264 #1–4, 6, 16, 19

1.
  - a) parallelogram
  - b) kite
  - c) trapezoid
  - d) square
  - e) square
2. 36
3.  $0 < x < 25$
4. 3
6. consecutive, 60, 120, 60, 120
16. 106
19.
  - a) S
  - b) A
  - c) S
  - d) S



**p. 292 #11, 15**

11. a) 140  
b) 58
15. 110

**p. 320 #6, 10, 12, 13–16**

6. 120
10. 6, 80, 40
12. 24
13. a) 5580  
b) 360
14. 11
15. 90
16. Equilateral triangle

