

### Lesson 3.4

#### Homework Answers

Pg 147 - #1-25 odd, 32-35, 37-44, 47-53, 59, 64-70

Pg 151 - #1-9

1. yes

3. No; it is not a plane figure

5.  $MWBFX$ ; sides:  $\overline{MW}, \overline{WB}, \overline{BF}, \overline{FX}, \overline{XM}$

$\angle$ 's:  $\angle M, \angle W, \angle B, \angle F, \angle X$

7. **HEPTAGN**;

sides:  $\overline{HE}, \overline{EP}, \overline{PT}, \overline{TA}, \overline{AG}, \overline{GN}, \overline{NH}$

$\angle$ 's:  $\angle H, \angle E, \angle P, \angle T, \angle A, \angle G, \angle N$

9. decagon; concave

11. 1080

13. 1440

15. 180,000

17. 103

19. 37

21. 113, 119

23. 150; 30

25. 176.4, 3.6

32. 3

33. 8

34. 13

35. 18

37. octagon;  $m\angle 1 = 135; m\angle 2 = 45$

38. If you solve  $\frac{(n-2)180}{n} = 130$ , then  $n = 7.2$ .

39. 20-80-80; 50-50-80

40. 108; 5

41. 144; 10

42. 162; 20

43. 150; 12

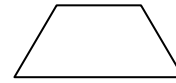
44.  $180 - x; \frac{360}{x}$

47.  $y = 103; z = 70$ ; quad.

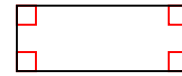
48.  $w = 72, x = 59, y = 49, z = 121$ ;  $\Delta$

49.  $x = 36, 2x = 72, 3x = 108, 4x = 144$ ; quad.

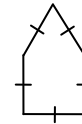
50.



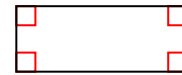
51.



52.



53.



59. 36

64. 4140

65. 20

66. 225

67. 360

68. 157.5

69. 27

70. 10

See back for pg 151 answers

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Pg 151 - #1-9

#### Pg 151

1.  $\frac{8}{3}$ ; it is steeper than line  $l$  but has same tilt.
2.  $\frac{1}{6}$ ; it is not as steep as line  $l$  but has same tilt.
3.  $-\frac{3}{2}$ ; it is steeper than line  $r$  but has same tilt.
4.  $-\frac{2}{3}$ ; it is not as steep as line  $r$  but has same tilt.
5.  $-1$ ; it is the same steepness and tilt as line  $r$ .
6.  $\frac{1}{7}$ ; it is not as steep as line  $l$  but has same tilt.
7.  $-5$ ; it is steeper than line  $r$  but has same tilt.
8.  $0$ ; the line is horizontal.
9. Undefined; the line is vertical.