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Chapter 1

- 1. Name 3 collinear points.
- 2. Name 3 points that are not collinear.
- 3. Name 3 coplanar points.
- 4. Name line p as many ways as possible.
- 5. Give another name for plane R.
- 6. Is plane EDF a correct name for plane R?
- 7. Is \overrightarrow{HDG} another name for line n?
- 8. Name a point not contained in a line.
- 9. Where do lines p and n intersect?
- 10. Will lines n and m ever intersect?
- 11. Name the geometric shape (line segment, plane, line, point, intersecting planes, intersecting lines) modeled by each of the following.
 - a) The floor
 - b) The floor and the wall
 - c) The tip of a pen
 - d) A blanket
 - e) A telephone pole
- 12. Classify the polygon by its number of sides.



13. A regular heptagon has a perimeter of 56 feet. What is the length of one of its sides?

14. A regular decagon has a side length of 3x. What is its perimeter?



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15. Find the length. Provide units.		
a)	В)	

2

4

3

2

1

cm

5

6

16. Given V between S and T, VT=2.6 in and ST=4.1 in, find SV.

in.

17. Given G between E and F, EG=2.5 and GF=2.8, find EF.

18. Consider the picture below where $\overline{AB} \cong \overline{BC} \cong \overline{CD} \cong \overline{DE}$ and AE=48 feet. Find the length of BD.



19. On the number line below AD=14, CD is twice the length of AB, and BC is 4 less than three times the length of AB. Find x and the length of BC.



Give the number.b) What is the another name for ∠DBC?Give the number.

a) What is the another name for $\angle ADB$?



22. Consider the picture below where A (0,0), B(8,7), and C(5,0). To the nearest tenth find the following lengths.

- a) AB =____
- b) BC=____
- c) AC=____



2

0

- 23. Use the picture at the right below to find:
 - a) KL
 - b) MJ
 - c) The midpoint of KM
 - d) The midpoint of KL
- 24. Find the distance of FG



- 25. Find the distance and midpoint of AB with A (-2, 4) and B (8, 10)
- 26. R is the midpoint between A and B. If AR=9x-2 and RB=14+5x, then find AB. DRAW AND LABEL A PICTURE!!



10



f) If the m \angle EWT=20x+4 and m \angle RWT=8x-20 then what is the value for x and m \angle QWR.



- 31. If $m \ge 1 = 10x + 25$ and $m \ge 2 = 15x 10$, find the value of x so that ≥ 1 is complementary to ≥ 2 .
- 32. Find the area and circumference of the circle shown below. Round your answer to the nearest hundredth.



33. Find the area and circumference of the circle shown below. Round your answer to the nearest hundredth.



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34. Find the area and perimeter of the triangle shown below.



35. The figure below shows a rectangle with its given dimensions. The perimeter of the rectangle is 198. What is the value of x?



6x

36. The figure below shows a rectangle with its given dimensions. The area of the rectangle is 448. What is the value of x?



37. What is the perimeter of the rectangle shown below. Your answer will look like "20x+44" – this is not the answer.



38. Find the area and perimeter of each irregular shaped region.



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- 39. Liam has a rectangular garden that is 4-foot-by-6-foot.
 - a) What is the area of his garden?
 - b) He wants to double the area of his garden. What will be the area of this garden?
 - c) If he doubles the length and width of the original garden, what will be the area of this garden?
- 40. A rectangular garden 32 feet by 45 feet is surrounded by a path 3 feet wide. What is the outer perimeter of the walk?

41. Rectangle JKLM shown below has a perimeter of 238 cm. What is the length, in centimeters, of \overline{JL} ?



42. Measurements for the rectangle shown below are in inches. The perimeter of the rectangle is 72 inches. What is the area of the rectangle in square inches?





- 52. If $m \angle 4=123$, find $m \angle 5 = _$ What is the relationship (type of angles) between these two angles?
- 53. If $m \ge 6=110$, find $m \ge 5 = _$ _____ What is the relationship (type of angles) between these two angles?
- 54. If $m \ge 8=43$, find $m \ge 5 = _$ _____ What is the relationship (type of angles) between these two angles?
- 55. If $m \angle 8=55$, find $m \angle 1 = _$ What is the relationship (type of angles) between these two angles?





- 58. Multiple Choice. Given a || b, $m \angle 7 = 8x + 7$ and $m \angle 1 = 15x 11$ find the $m \angle 6$?
 - A 69 B 70 C 71 D 72
- 59. (a) Graph the point (3, -2). Label it point P.
 - (b) Graph the line y = 4. Label it line n.
 - (c) What is the distance from *P* to n?

- 60. *Multiple Choice*. If $\angle 2 \cong \angle 6$ determine which lines are parallel. State the postulate or theorem that justifies your answer.
 - A $a \parallel b$; congruent corresponding angles
 - B $c \parallel d$; congruent alternating exterior angles
 - C $c \parallel d$; congruent corresponding angles
 - D $a \parallel b$; congruent alternating exterior angles



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- 61. *Multiple Choice.* If $\angle 4 \cong \angle 10$ determine which lines are parallel. State the postulate or theorem that justifies your answer.
 - A $a \parallel b$; congruent corresponding angles
 - $c \parallel d$; congruent alternating exterior angles В
 - $c \parallel d$; congruent corresponding angles С
 - D $a \parallel b$; congruent alternating exterior angles

For problems 62 and 63 refer to the picture below,

- 62. Which angle relationship justifies $m \parallel a$?
 - А $\angle 8 \cong \angle 12$
 - В $\angle 7 \cong \angle 4$
 - С $m \angle 13 + m \angle 14 = 180$
 - $m \angle 6 + m \angle 10 = 180$ D
- 63. Which angle relationship justifies $t \parallel h$?
 - $\angle 5 \cong \angle 13$ А
 - $\angle 1 \cong \angle 3$ В
 - С $m \angle 15 + m \angle 16 = 180$
 - D $\angle 8 \cong \angle 16$
- 64. Determine whether \overrightarrow{AB} and \overrightarrow{CD} are parallel, perpendicular, or neither.





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65. Using special right triangle relationships solve each of the following for a and b.



Chapter 4

66. Classify each triangle by its sides AND angles. If sides look different lengths or an angle appears to be obtuse or acute you may assume it's true.



67. Find x and the length of each side if triangle FGH is equilateral.



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68. ΔLMN is an isosceles triangle, with *base MN*. LM = 3x - 2, LN = 2x + 1, and MN = 5x - 2. Find the perimeter of the triangle.

69. The rhombus QRST is made of two congruent isosceles triangles. Given $m \angle QRS = 28$, what is the measure of $\angle S$?

Ν



70. Identify the type of congruence transformation for each picture below. (Reflection, Translation, or Rotation)a)B)c)



71. In $\triangle ABC$ at the right, what is the measure of $\angle A$?



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72. Find the measure of each angle.



73. Find the measure of each numbered angle.



74. Find the measure of each numbered angle.



75. Find the measure of each numbered angle.



76. Provide a proper congruence statement for the figure below.



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- 77. If $\Delta SUN \cong \Delta HAT$ give the segment or angle that corresponds to each of the following
 - a. $\angle SNU$ b. $\angle S$ c. \overline{SN} d. \overline{TA}

78. If $\Delta LMN \cong \Delta RST$, $m \angle L = 45$, $m \angle M = 10x + 2$, $m \angle S = 82$, and $m \angle T = 5y - 7$, then find x and y.

79. If $\Delta SUN \cong \Delta HAT$, UN=6 inches, HA=4 inches, $m \angle S = 120^{\circ}$, and $m \angle A = 25^{\circ}$, then find

- a) SU=____
- b) *m∠N* = _____
- c) *m∠U* = _____