

Chapter 1

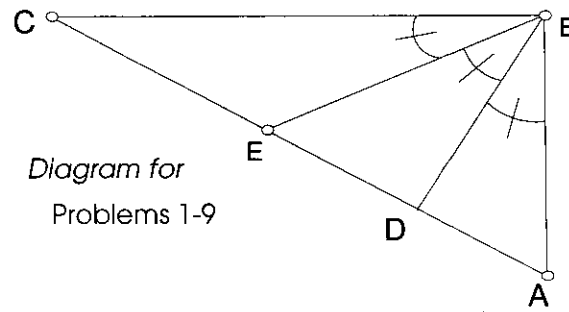
Name _____

True/False

1. _____ $\overline{AD} \cong \overline{DE} \cong \overline{EC}$
2. _____ $m\angle DBE = 30^\circ$
3. _____ $m\angle ABE = 2(m\angle EBC)$

Fill in the blanks.

4. _____ $\overline{AD} \cap \overline{EA}$
5. _____ $\overline{DA} \cup \overline{DB}$
6. _____ $\overline{AD} \cap \overline{BC}$
7. _____ $\angle ABE \cap \angle EBC$
8. _____ The number of angles that have their vertex at point B.
9. _____ If three of the five labeled points are chosen at random, the probability that they form a triangle is...

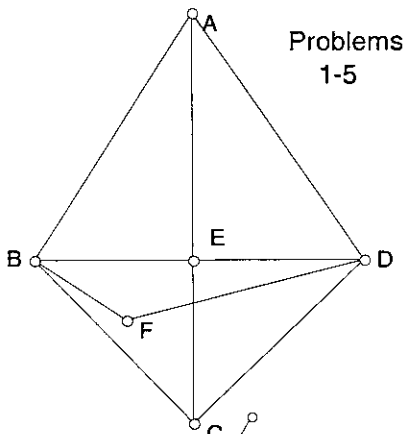


10. The sides of a triangle are in ratio of 4:5:7 and the perimeter of the triangle is 72. Find the length of the shortest side.
11. Change $45\frac{3}{8}^\circ$ to **degrees minutes**, and **seconds**.
12. Change $33'20''$ (33 minutes, 20 seconds) to degrees.
13. Find the measure of the angle formed by the hands of the clock at 1:35.

Chapter 4

In problems 1-5 determine whether each statement is true (T) or false (F) based on the diagram.

GIVEN: $\angle ABD \cong \angle ADB$; $\overline{BC} \cong \overline{DC}$



1. $\overline{AB} \cong \overline{AD}$ 1. _____

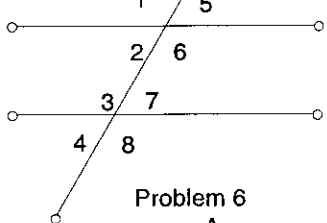
2. $\overline{AC} \perp$ bisector of \overline{BD} 2. _____

3. F is equidistant from B and D 3. _____

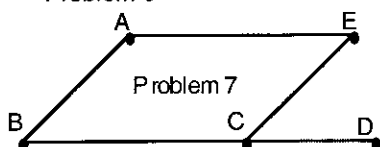
4. $\overline{BE} \parallel \overline{AD}$ 4. _____

5. \overline{CE} is an altitude of $\triangle BCD$. 5. _____

6. $\angle 2$ and what other angle are alternate interior angles? 6. _____



7. Name a pair of corresponding angles for \overline{AB} and \overline{EC} with transversal \overline{BD} . 7. _____



Chapter 5

Fill in the blank with the MOST descriptive name for each quadrilateral.

1. The quadrilateral whose consecutive sides have measures 2, 3, 3, 2 is a(n) ___?___.
2. The quadrilateral whose consecutive sides have measures 2,3,2,3 is a(n) ___?___.
3. The quadrilateral with two pairs of non-opposite sides congruent is a(n) ___?___.
4. If consecutive midpoints of a rectangle are joined, a(n) ___?___ is formed.
5. If at least one pair of opposite angles of a quadrilateral are congruent and the other pair of angles are each bisected by a diagonal, the figure formed is a(n) ___?___.

1. _____
2. _____
3. _____
4. _____
5. _____

Multiple Choice (choose the BEST answer for each)

6. The diagonals are always \perp and \cong in a(n) ___?___.
(a) square (b) trapezoid (c) kite
(d) isosceles trapezoid (e) can't be determined
7. A quadrilateral with diagonals that each bisect a pair of opposite angles could be a(n) ___?___.
(a) rectangle (b) kite (c) isosceles trapezoid
(d) square (e) can't be determined
8. If parallel lines are cut by a transversal, bisectors of alternate interior angles are ___?___.
(a) parallel (b) perpendicular (c) congruent
(d) oblique (e) none of these
9. Which is not a property of parallelograms?
(a) opposite sides are congruent
(b) opposite angles are congruent
(c) diagonals are congruent
(d) diagonals bisect each other
(e) consecutive angles are supplementary

6. _____
7. _____
8. _____
9. _____
10. _____

10. Which of the following is not sufficient to prove that a parallelogram is a rectangle?
(a) diagonals are congruent
(b) has a right angle
(c) has a pair of consecutive \cong angles
(d) is inscribed in a circle
(e) diagonals are perpendicular