

1-1

- Undefined Terms
 - Points, Lines, Planes
- Collinear/Coplanar Points
- Defined Terms
 - Segments, Rays, Opposite Rays
- Intersections

1-2

- Ruler Postulate
- Copying Segments
- Congruent symbol: \cong
- Segment Addition Postulate

1-3

- Midpoints
- Segment Bisectors
- Bisecting a segment
- Midpoint Formula
- Distance Formula

1-4

- Classifying Polygons
- Area/Perimeter of Polygons

1-5

- Angles, Vertices, Sides
- Interior/Exteriors of Angles
- Protractor Postulate
- Acute, Right, Obtuse, Straight angles
- Copying Angles
- Angle Addition Postulate
- Bisecting Angles

1-6

- Complementary/Supplementary Angles
- Adjacent Angles
- Common vertices/sides
- Linear Pairs
- Vertical Angles
- Interpreting Diagrams

Classwork/Homework - Page 56-58 #8-22 E

$8. AX + XZ = AZ$	Segment Addition Post
$27 + XZ = 38$	Substitute
$XZ = 11$	Simplify

10. $(\frac{x_2+x_1}{2}, \frac{y_2+y_1}{2})$	Midpoint Formula
$(\frac{-2+3}{2}, \frac{4+9}{2})$	Substitute
$(\frac{1}{2}, 6.5)$	Simplify

$\sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$	Distance Formula
$\sqrt{(-2 - 3)^2 + (4 - 9)^2}$	Substitute
$\sqrt{50}$	Simplify
$ST \approx 7.071$	

12. $(\frac{x_2+x_1}{2}, \frac{y_2+y_1}{2})$	Midpoint Formula
$(\frac{14+x_1}{2}, \frac{9+y_1}{2})$	Substitute

$6 = \frac{14+x}{2}$	Substitute
$12 = 14 + x$	Simplify
$x = -2$	Simplify

$3 = \frac{9+y}{2}$	Substitute
$6 = 9 + y$	Simplify
$y = -3$	Simplify

$$83 + m\angle 2 = 90$$

$$m\angle 2 = 17$$

Substitute
Simplify

$$14. ZX = |x_2 - x_1|$$

$$ZX = |2 - 5|$$

$$ZX = 3$$

Ruler Postulate

Substitute

Simplify

$$22. m\angle 3 + m\angle 4 = 180$$

$$56 + m\angle 4 = 180$$

$$m\angle 4 = 124$$

SAP
Substitute

$$XW = |y_2 - x_1|$$

Ruler

Postulate

$$XW = |6 - (-1)|$$

$$XW = 7$$

Substitute

Simplify

$$2l + 2w =$$

$$2(XW) + 2(ZX) =$$

$$2(7) + 2(3) =$$

$$20 \text{ units}$$

Perimeter

Substitute

Substitute

Simplify

$$l \cdot w =$$

Area

$$XW \cdot ZX =$$

Substitute

$$7 \cdot 3 =$$

Simplify

$$21 \text{ units}^2$$

Simplify

$$16. m\angle ABC = m\angle ABD + m\angle DBC \quad \text{SAP}$$

$$77 = 3x + 22 + 5x - 17$$

Substitute

$$77 = 8x + 5$$

Simplify

$$72 = 8x$$

Simplify

$$x = 9$$

$$m\angle ABD = 3x + 22$$

$$m\angle ABD = 3(9) + 22$$

Substitute

$$m\angle ABD = 49$$

Simplify

$$m\angle DBC = 5x - 17$$

$$m\angle DBC = 5(9) - 17$$

Substitute

$$m\angle DBC = 28$$

Simplify

$$18. 134$$

$$20. m\angle 1 + m\angle 2 = 90$$

SAP