Vocabulary Sheet for Lesson 4-1 Diagram/Notes Definition Facts of Congruence: A Two shapes can only be congruent if you could place them on top of each other and have the corresponding sides and angles match up perfectly Stating Congruence: Using the previous pentagons we can make the following statements: Pentagon ABCDE is congruent to pentagon XYZVW because: • m< A = m< X AB = XY • m< B = m< Y BC = YZ • m < C = m < ZCD = ZV • m< D = m< V DE = VW • m< E = m< W EA = WX Corresponding Parts: The parts that are in the same place and have the same size in each shape are called corresponding parts For triangles we can say that corresponding parts of congruent triangles are congruent (CPCTC) but this rule works for all shapes Example 1: • Suppose you know that Δ FIN is congruent to Δ WEB. • Name three pairs of corresponding sides FI ~ WE IN ~ EB FN ~ WB Name three pairs of corresponding angles LF ~ LN ~ LN ~ LB LI ~ LE • Is it correct to say that Δ NIF is congruent to Δ BEW? Why or why not? yes, the corresponding parts Still Match up • Is it correct to say that \triangle NIF is congruent to \triangle EWB? Why or why not ND, corresponding parts don't Match up

