**Day 02 Parallelograms & Conditions for Parallelograms HW Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

 **Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Block\_\_\_\_\_\_**

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| **1-9: Find x and y in each parallelogram based on the properties. Show your work!**  |
| **1.** | **2.**  | **3.** |
| **4.**  | **5.**  | **6.** |
| **7.**  | **8.** | **9.** |
| **10-13: Use RSTU to find each measure or value.** |
| **10.** m∠RST = \_\_\_\_\_\_\_ **11.** m∠STU = \_\_\_\_\_\_\_ **12.** m∠RST = \_\_\_\_\_\_\_ **13.** b = \_\_\_\_\_\_\_\_ |
| **14-19: Fill in the blanks based on your knowledge of the given parallelogram below.** |
| **14.** **15.** **16.** **17.** is supplementary to \_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_.**18.** **19.**  |

**20-24: Circle words or phrases that can complete the following sentences to make statements that are ALWAYS true. (There may be more than one correct choice for some of the sentences.)**

**20.** Opposite sides of a parallelogram are (congruent/perpendicular/parallel).

**21.** Consecutive angles of a parallelogram are (complementary/supplementary/congruent).

**22.** Opposite angles of a parallelogram are (complementary/supplementary/congruent).

**23.** The diagonals of a parallelogram (bisect each other/are perpendicular/are congruent).

**24.** If a parallelogram has one right angle, then all of its other angles are (acute/right/obtuse) angles.

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| **25-32: Determine if each quadrilateral is a parallelogram. Explain your answer** |
| **25.** | **26.** | **27.**  | **28.**  |
| **29.** | **30.** | **31.** | **32.** |