Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |
| --- |
| Use the following to review for you test. **Show your work on a separate sheet of paper if needed.** |
| **Things to Know** | **Things to Remember** | **Examples** |
| Properties of Parallelograms | * Opposites angles are congruent
* Consecutive angles are supplementary
* Opposite sides are equal
* Diagonals bisect each other
 | 1. Find x and y.

 | 1. Find m and n.

 |
| 1. Find x and y.

 | 1. Find x and y.

 |
| Special Parallelograms | * A rectangle is a parallelogram with 4 right angles and CONGRUENT DIAGONALS
* A rhombus is a parallelogram with 4 congruent sides AND PERPENDICULAR DIAGONALS
* A square is a rectangle and rhombus
 | 1. Find x and y.

 | 1. Quadrilateral RSTU is a parallelogram. What other information would allow you to prove that RSTU is a rectangle?
 |
| Triangle Congruence | SSS, SAS, ASA, AAS, HL, None | 1.

GHIFC | 1.

ABCD |
| 1.

 | 1. The diagonals bisect each other.

 |
| CPCTC | Corresponding Parts of Congruent Triangles are Congruent | 1. ΔDFE  12. ΔEFG ΔKML, find X and Z.

 **Choice Bank**: SSS SAS ASA AAS HL CPCTC Vertical Angles are Reflexive Property Alternate Interior Angles  Right Angles are Transitive Property Definition of a Midpoint Given1. Given:

Prove:

|  |  |
| --- | --- |
| **Statements** | **Reasons** |
| 1.  | 1.  |
| 2.  | 2. |
| 3.  | 3.  |
| 4.  | 4.  |

1. Given:

Prove:

|  |  |
| --- | --- |
| **Statements** | **Reasons** |
| 1.  | 1.  |
| 2.  | 2. Given |
| 3.  | 3.  |
| 4.  | 4. |
| 5.  | 5.  |
|  |  |

 |
| Proofs | State what is given first, and mark your picture!Step 1 – Write down the givensStep 2 – Make any marks that you know are congruent (reflexive property, vertical angles, alternate interior angles)Step 3 – The last Statement will always be the “Prove” statement  |
| Find the missing sides for similar figures | Set up a proportion by matching up the corresponding sides. Then, solve for x. | 1. 16.

 17. 18.   |
| Midsegment versus Median | Midsegment: The segment connecting the midpoints of two sides of the triangle is parallel to the third side and 1/2 the length of the third side.Median: the segment connecting a triangle’s vertex to the midpoint of the opposite side; all three medians intersect at a point called the centroid  | 19. Find PQ and TP 20. Solve for x. Go07an_0504quiz_0521.1. If PY is 9 cm, then YR is
2. If PQ is 22 cm, then ZQ is
 |
| Determining if two shapes are similar | For triangles: Remember the 3 ways that you can do this: AA~, SAS~, SSS~For quadrilaterals: corresponding sides are proportional and corresponding angles are congruent | 22. ΔGNK ~ \_\_\_\_\_\_ by\_\_\_\_\_\_ 23. ΔABC ~ \_\_\_\_\_\_ by\_\_\_\_\_\_  24. |
| Angle Properties | Linear PairPerpendicular AnglesVertical AnglesCorresponding AnglesAlternate Interior Angles | 25.26.  27.  28. 29.   |
| Triangle Properties | Sum of the three angles is 180 degreesIsosceles triangles have congruent legs and congruent base angles | 30. 31. 32. 33.   |