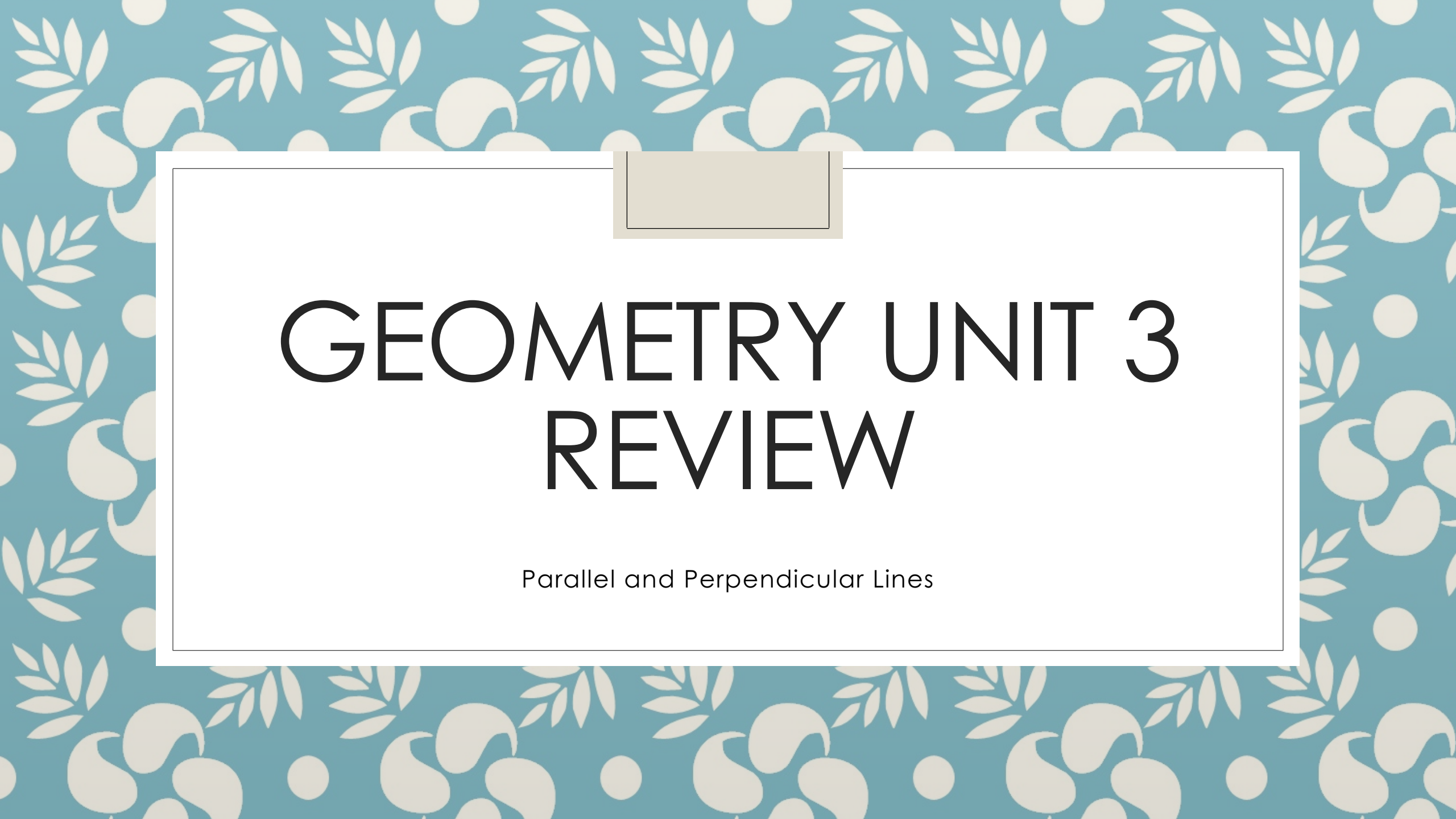




GEOMETRY UNIT 3 REVIEW

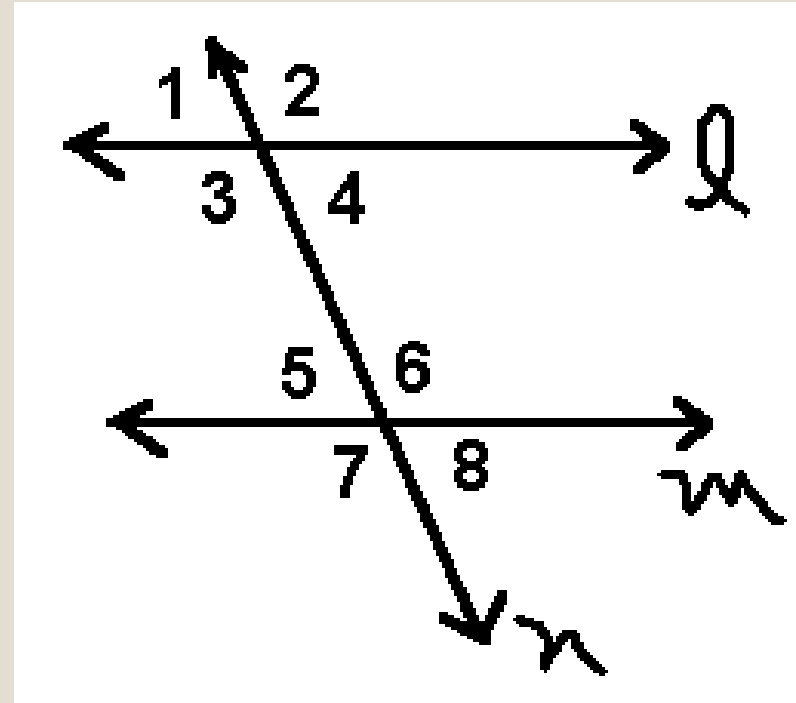
Parallel and Perpendicular Lines

Standard 15: Identify parallel, skew, and perpendicular lines and give real-life examples of each.

- What are parallel lines? Give 3 real-life examples.
- What are skew lines? Give 3 real-life examples.
- What are perpendicular lines? Give 3 real-life examples.

Standard 16: Identify angles created when a transversal cuts two parallel lines and identify the relationships between those angles. .

- Name a pair of angles which satisfy the following relationships:
 - Alternate Exterior Angles
 - Alternate Interior Angles
 - Vertical Angles
 - Corresponding Angles
 - Consecutive Interior Angles



Standard 17: Use geometric constructions to demonstrate the parallel and perpendicular line postulates.

- Create a line parallel to a given line through a point.
- Create a line perpendicular to a given line through a point.
- <http://www.mathsisfun.com/geometry/constructions.html>

Standard 18: Identify and use converse postulates and theorems to prove lines parallel.

- What do the following postulates state?
 - Converse of corresponding angles postulate
 - Converse of alternate interior angles postulate
 - Converse of alternate exterior angles postulate
 - Converse of consecutive interior angles postulate
 - Parallel lines property

Standard 19: Compute the slope of a line in the coordinate plane.

- Find the slope of the line between the two points:
 - (4, 12) and (8, 24)
- Find the slope of the line with the given equation:
 - $Y = -34x + 1778090$

Standard 20: Identify the relationship between slopes of parallel and perpendicular lines.

- What is the relationship between slopes of parallel lines?
- What is the relationship between slopes of perpendicular lines?

Standard 21: Write equations of lines in slope-intercept form.

- Write an equation given the following circumstances.
 - If slope is -2 and y-intercept is -1 .
 - If slope is 3 and there is a point $(1, 5)$
 - If there are two points $(3, 6)$ and $(2, 0)$

Standard 22: Determine if lines are parallel, perpendicular or neither from their equations.

- $Y = 2x + 6$ and $y = -2x - 4$
- $2y = 12x + 10$ and $y = -1/6x - 15$
- $Y = 3x - 10$ and $3y = 9x + 1$

Standard 23: Write equations in standard form.

- Did not cover will not be on the test.

Standard 24: Identify and use perpendicular transversals to prove lines parallel.

- What can I tell from the given diagram?

