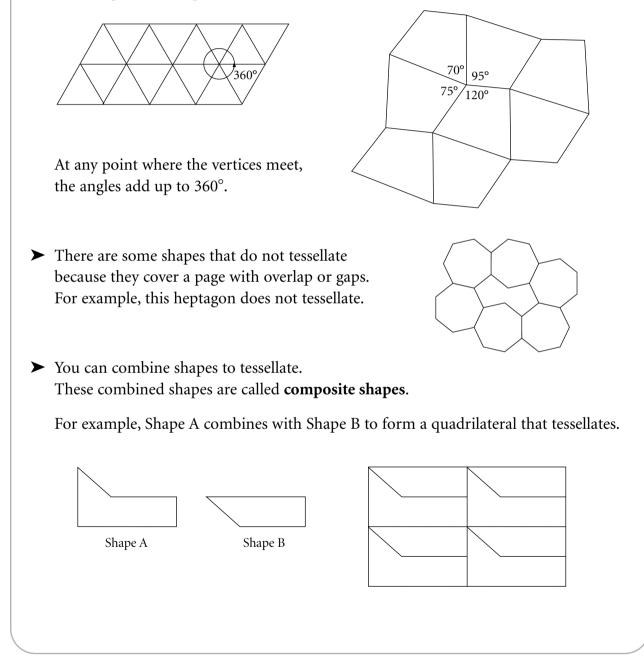
Quick Review

12.

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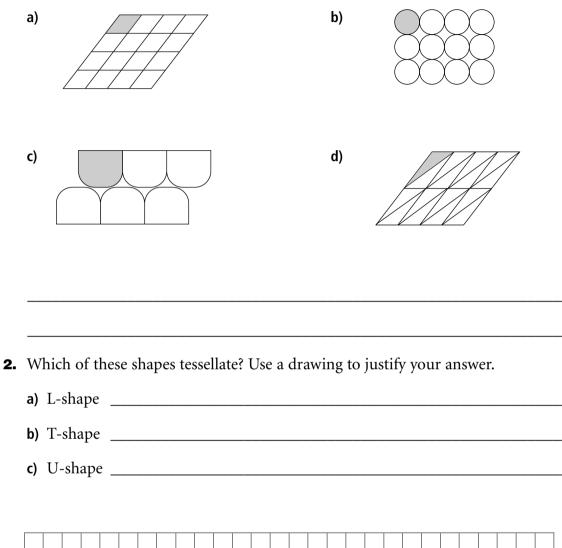
When you can cover a page using congruent copies of a shape with no overlaps and gaps, the shape tessellates, creating a design called a tessellation.

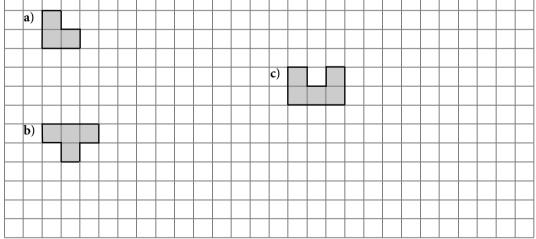
All triangles and all quadrilaterals tessellate.



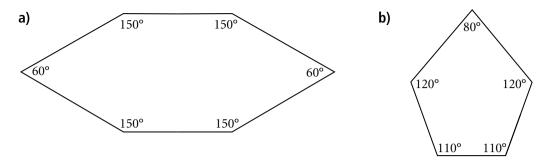
Practice

1. Which of these designs are tessellations? Justify your answer.





3. Which of the polygons can be used to create a tessellation? Justify your answer by checking if copies of the polygon can surround a point.

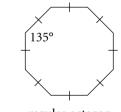


4. Create a composite shape that tessellates using a regular hexagon and one or more equilateral triangles. Show your tessellation on the isometric dot paper.

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5. Arlene is planning to create a tessellating quilt pattern using one of these shapes.





regular octagon

- a) Which shape can Arlene use? Why?
- b) Can Arlene use a combination of these shapes to create a tessellating quilt pattern? Explain.