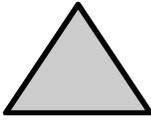
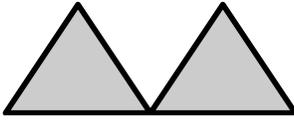
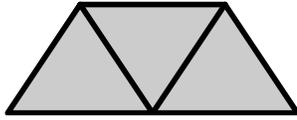


## Skill 5-21D: Geometry

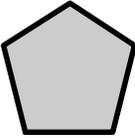
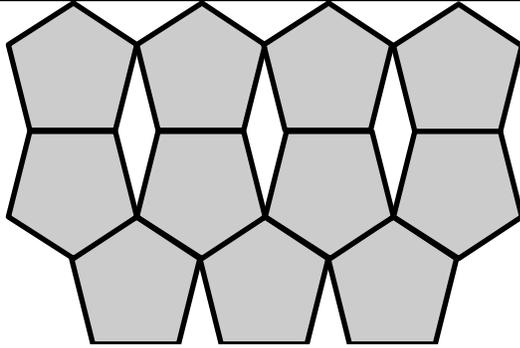
**Tessellations**

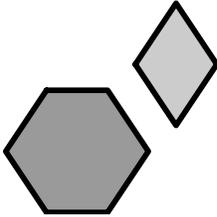
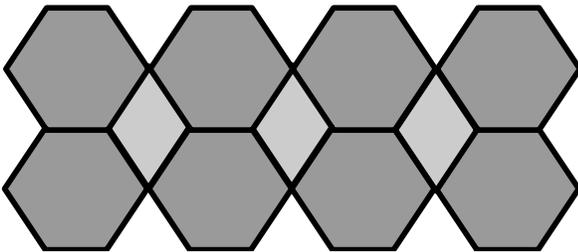
A tessellation is a pattern of geometric shapes that covers a plane with no gaps or overlaps.

**Examples**

 <p>Does this shape tessellate?</p>	 <p>To find out place the two triangles side by side with the corners touching.</p>	 <p>Next, place a triangle upside down and fit it in the empty space.</p>
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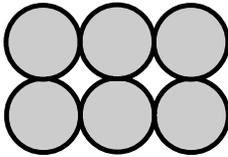
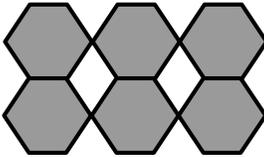
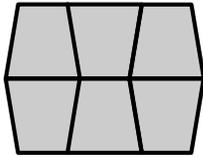
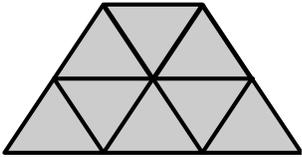
The triangles fit together exactly with no gaps or overlays. So, the triangle shown above is said to tessellate. Let's try another shape.

 <p>Does this shape tessellate?</p>	 <p>This shape does not tessellate because there are gaps.</p>
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 <p>You can see if two shapes tessellate.</p>	 <p>When the shapes are put together, you can see that the shapes tessellate because there are no gaps or overlays..</p>
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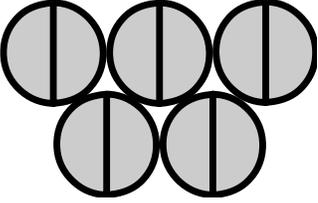
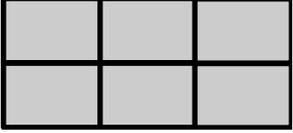
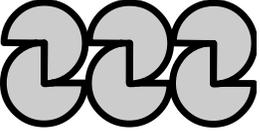
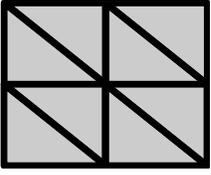
**More Examples**

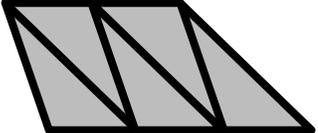
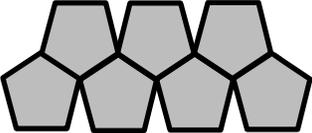
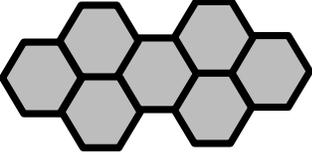
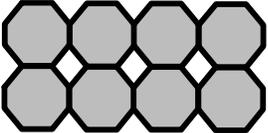
**Directions:** Do the figures make a tessellation?

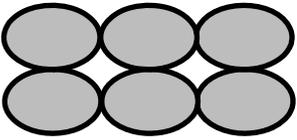
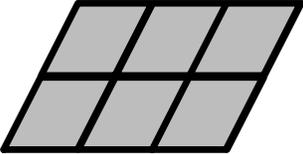
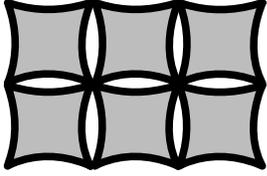
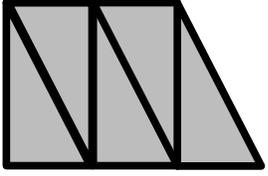
 <p>No, because there are gaps.</p>	 <p>No, because there are gaps.</p>	 <p>Yes, because there are no gaps or overlays.</p>	 <p>Yes, because there are no gaps or overlays.</p>
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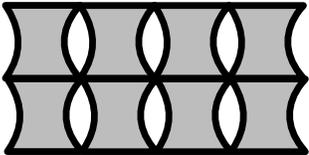
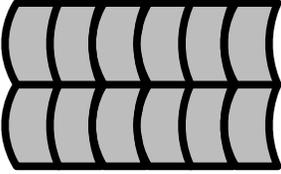
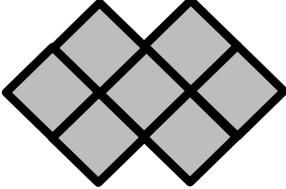
## Skill 5-21D: Geometry

**Tessellations****Directions:** Do the figures make a tessellation? Circle yes or no.

<p>1.</p>  <p>yes no</p>	<p>2.</p>  <p>yes no</p>	<p>3.</p>  <p>yes no</p>	<p>4.</p>  <p>yes no</p>
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<p>5.</p>  <p>yes no</p>	<p>6.</p>  <p>yes no</p>	<p>7.</p>  <p>yes no</p>	<p>8.</p>  <p>yes no</p>
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<p>9.</p>  <p>yes no</p>	<p>10.</p>  <p>yes no</p>	<p>11.</p>  <p>yes no</p>	<p>12.</p>  <p>yes no</p>
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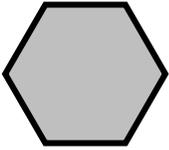
<p>13.</p>  <p>yes no</p>	<p>14.</p>  <p>yes no</p>	<p>15.</p>  <p>yes no</p>	<p>16.</p>  <p>yes no</p>
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## Skill 5-21D: Geometry

## Tessellations

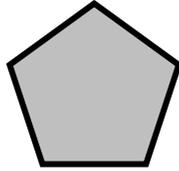
**Directions:** Will each figure tessellate? Circle yes or no.

17.



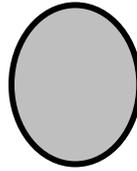
yes no

18.



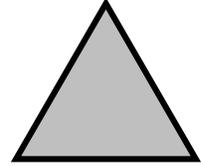
yes no

19.



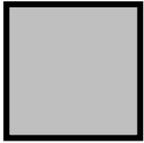
yes no

20.



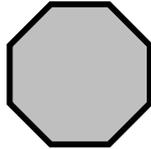
yes no

21.



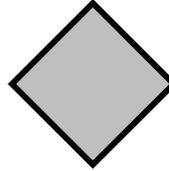
yes no

22.



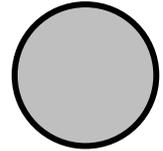
yes no

23.



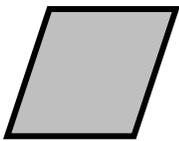
yes no

24.



yes no

25.



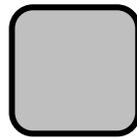
yes no

26.



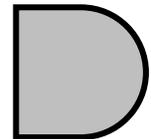
yes no

27.



yes no

28.



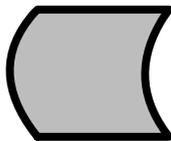
yes no

29.



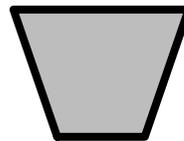
yes no

30.



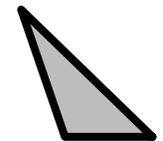
yes no

31.



yes no

32.

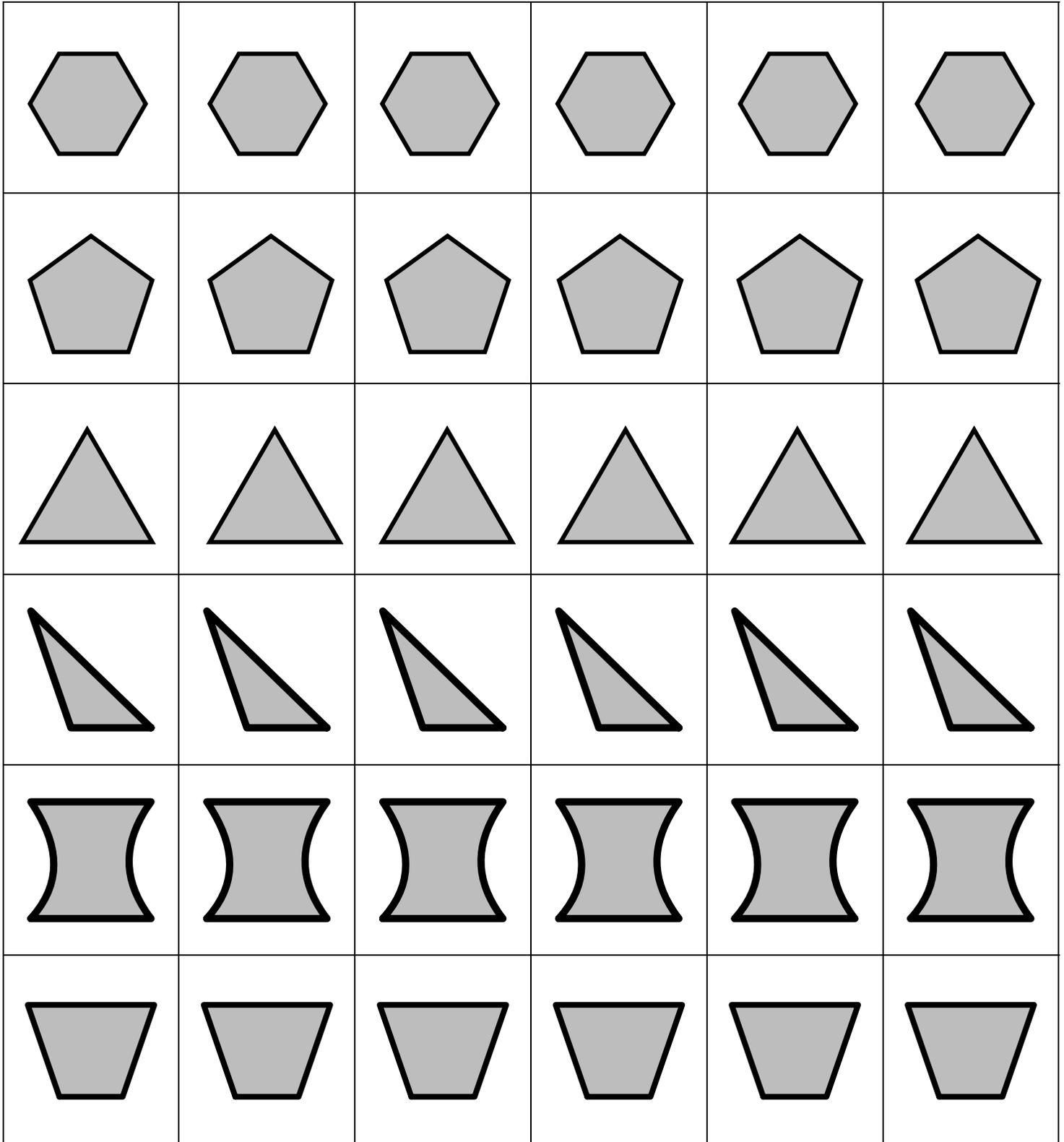


yes no

## Skill 5-21D: Geometry

## Tessellations

**Directions:** Cut out each figure with scissors to see if the figures tessellate.



Answer Key 5-21D

1. no	2. yes	3. no	4. yes	5. yes	6. no
7. yes	8. no	9. no	10. yes	11. no	12. yes
13. no	14. yes	15. yes	16. yes		

Page 2

17. yes	18. no	19. no	20. yes	21. yes	22. no
23. yes	24. no	25. yes	26. yes	27. no	28. no
29. no	30. yes	31. yes	32. yes		