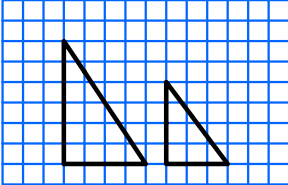


Geometry: Skill 5-21B

Congruent and Similar Figures

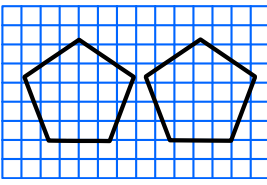
Answers to test question 21B.

Tell whether the shapes are similar, congruent or neither?



Answer:
The shapes are similar.

Similar shapes have exactly the same shape. They can be the same size or a different size.



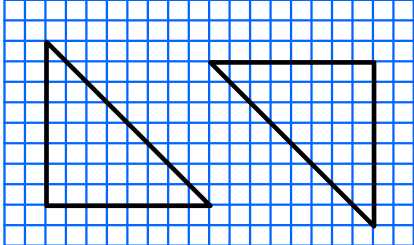
Answer:
The shapes are congruent.

Congruent shapes are exactly the same size and shape.

Congruent

Same shape, same size. (shapes that are congruent are also similar)

Shapes that are congruent can be in a different position like the figures below.

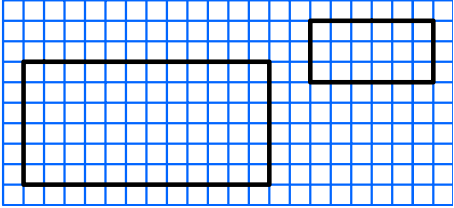


Congruent figures are also similar. The figures above are congruent and similar.

Similar

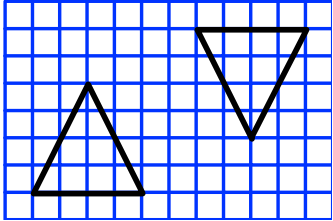
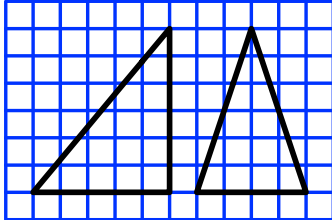
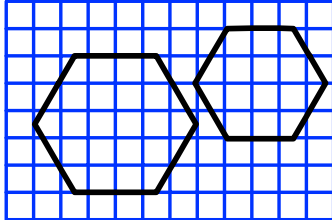
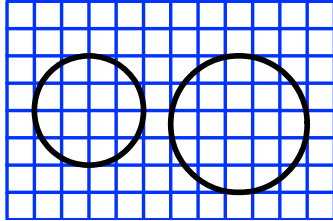
Same shape, does not have to be the same size.

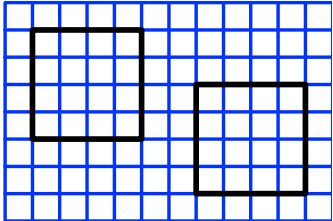
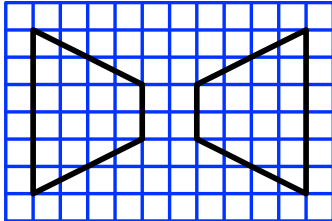
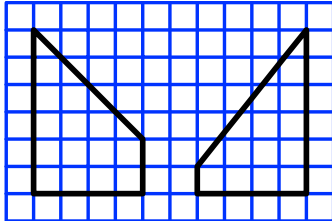
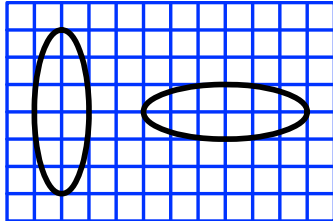
The figures below are similar but not congruent.



If the rectangles above were the same size and same shape then they would be congruent and similar.

Directions: Write similar, congruent, both or neither. The first one is done for you.

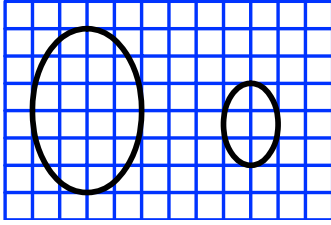
<p>1.</p>  <p style="text-align: center;">Answer: both</p>	<p>2.</p>  <p style="text-align: center;">_____</p>	<p>3.</p>  <p style="text-align: center;">_____</p>	<p>4.</p>  <p style="text-align: center;">_____</p>
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<p>5.</p>  <p style="text-align: center;">_____</p>	<p>6.</p>  <p style="text-align: center;">_____</p>	<p>7.</p>  <p style="text-align: center;">_____</p>	<p>8.</p>  <p style="text-align: center;">_____</p>
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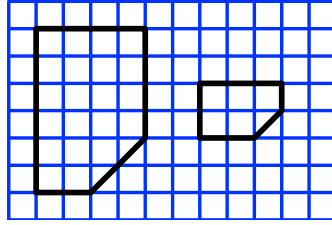
Geometry: Skill 5-21B

Congruent and Similar Figures**Directions:** Write similar, congruent, both or neither.

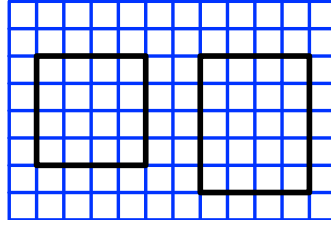
9.



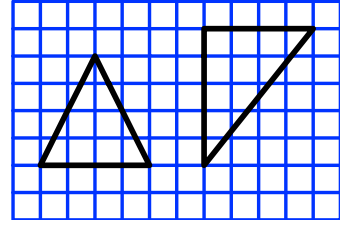
10.



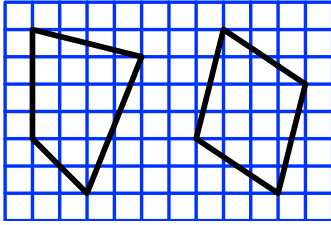
11.



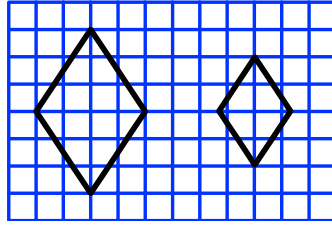
12.



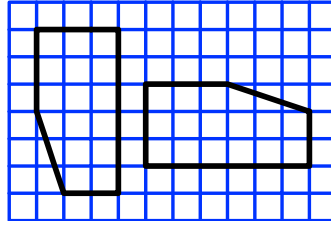
13.



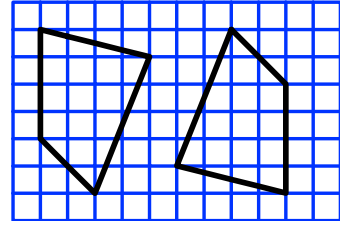
14.



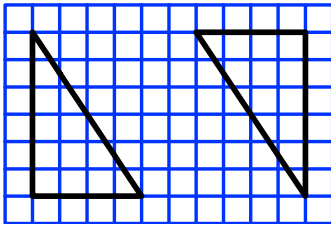
15.



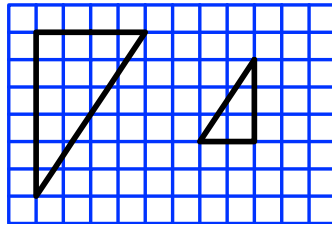
16.



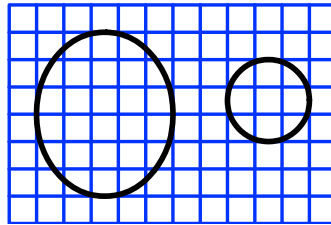
17.



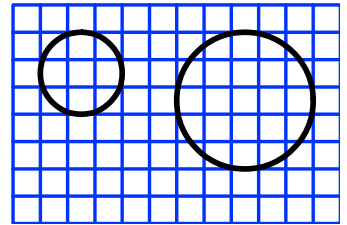
18.



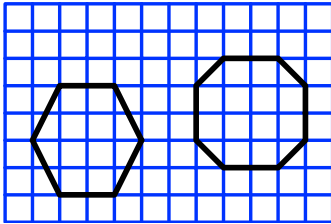
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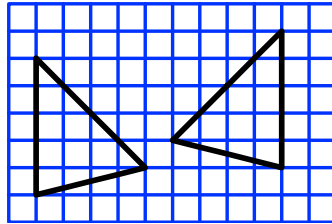
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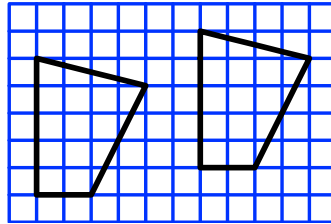
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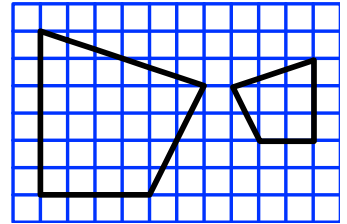
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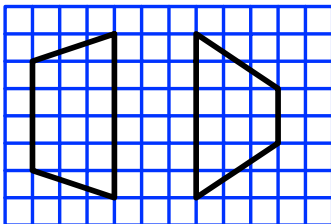
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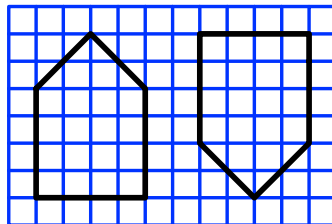
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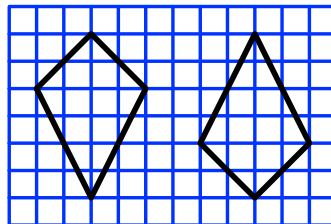
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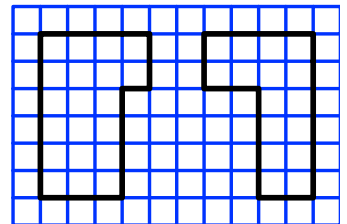
26.



27.



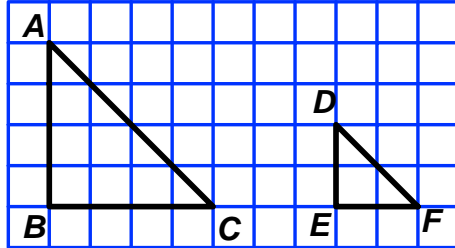
28.



Geometry: Skill 5-21B

Congruent and Similar Figures

Similar polygons have corresponding sides and corresponding angles.
 (a polygon is a closed plane figure formed by 3 or more straight line segments)



- $\angle A$ corresponds to $\angle D$
- $\angle B$ corresponds to $\angle E$
- $\angle C$ corresponds to $\angle F$

Directions: Each pair of figures below are similar figures. Write the measure of the missing angle. The first one is done for you.

<p>29.</p> <p>Find the missing angle.</p> <p><u>Answer: 40°</u></p>	<p>30.</p> <p>_____</p>	<p>31.</p> <p>_____</p>
<p>32.</p> <p>_____</p>	<p>33.</p> <p>_____</p>	<p>34.</p> <p>_____</p>
<p>35.</p> <p>_____</p>	<p>36.</p> <p>_____</p>	<p>37.</p> <p>_____</p>
<p>38.</p> <p>_____</p>	<p>39.</p> <p>_____</p>	<p>40.</p> <p>_____</p>

Answer Key 5-21B

- | | | | | | |
|-----------------|----------------|-----------------|-----------------|----------------|----------------|
| 1. both | 2. neither | 3. similar | 4. similar | 5. both | 6. both |
| 7. neither | 8. both | 9. similar | 10. similar | 11. neither | 12. neither |
| 13. neither | 14. similar | 15. both | 16. both | 17. both | 18. similar |
| 19. neither | 20. similar | 21. neither | 22. both | 23. both | 24. similar |
| 25. neither | 26. both | 27. both | 28. neither | 29. 40° | 30. 80° |
| 31. 135° | 32. 60° | 33. 150° | 34. 100° | 35. 72° | 36. 60° |
| 37. 118° | 38. 60° | 39. 49° | 40. 120° | | |