

Finding the Number of Intersections

NCTM Standards 1, 6, 7, 8, 9, 10

Fill in the missing numbers or the missing maps.

<p>1</p> <table border="1"> <tr><td>2</td></tr> <tr><td>4</td></tr> <tr><td>6</td></tr> </table>	2	4	6		<table border="1"> <tr><td>4</td></tr> <tr><td>2</td></tr> <tr><td>8</td></tr> </table>	4	2	8	<p>KEY</p> <ul style="list-style-type: none"> Horizontal Vertical Number of lines Number of intersections
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4									
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<p>2</p> <table border="1"> <tr><td>5</td></tr> <tr><td>1</td></tr> <tr><td>6</td></tr> </table>	5	1	6		<table border="1"> <tr><td>1</td></tr> <tr><td>5</td></tr> <tr><td></td></tr> </table>	1	5		
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6 A tiny town has 6 streets and 8 intersections. Draw a map of the town. Explain how you found your answer.

Use the information in the table and in the pictures to complete the maps and fill in the table.

7



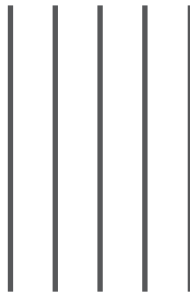
8



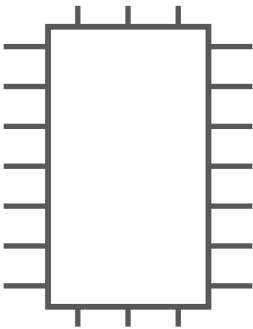
9



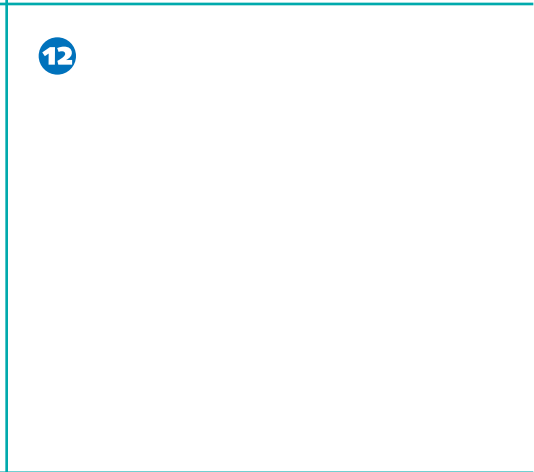
10



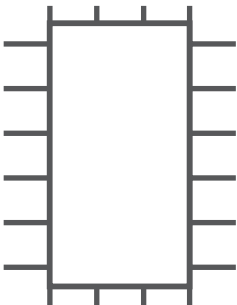
11



12



13



14 **Challenge**

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7	3		
8		5	
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11	7	3	
12	3		18
13	6	4	
14			5