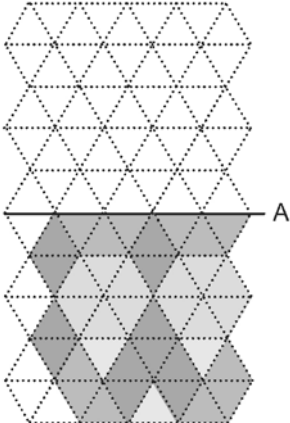
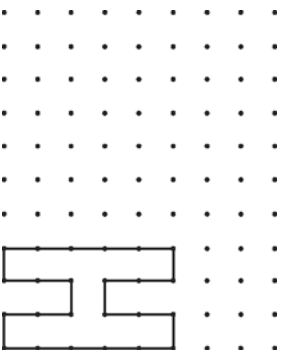
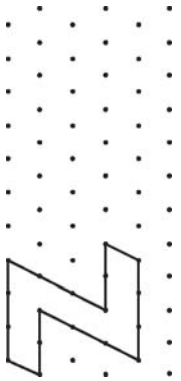


# Chapter 12 Problems of the Week

<p><b>1.</b> The following tessellation is to be reflected over line A. If a rhombus has a cost of \$0.35, what is the cost of the entire tessellation? a triangle? a trapezoid? a hexagon?</p> 	<p><b>2.</b> Does the letter H below tessellate? If it does, what is the least number of different colours needed so that when each shape is coloured no touching shapes have the same colour?</p> 
<p><b>3.</b> Does the letter Z below tessellate? How do you know?</p> 	<p><b>4.</b> Although you are learning about tessellations in math class, you could argue that tessellations are more a form of art than of mathematics. What do you think?</p> <ul style="list-style-type: none"> <li>• What mathematical skills are involved in creating tessellations?</li> <li>• What artistic skills are used?</li> <li>• Do you have to be good at both to explore tessellations?</li> </ul>
<p><b>5.</b> Create your own unique tessellation. Use the paint program on your computer to cut and paste a simple image of a bird or fish on your screen. Continue to paste and see if it tessellates. What conclusions can you make about objects that tessellate?</p>	<p><b>6.</b> Using all the pattern block pieces except for the orange square, create a tessellation that would cost no more than \$18.75, if a green triangle has a cost of \$0.375. Justify your design.</p>