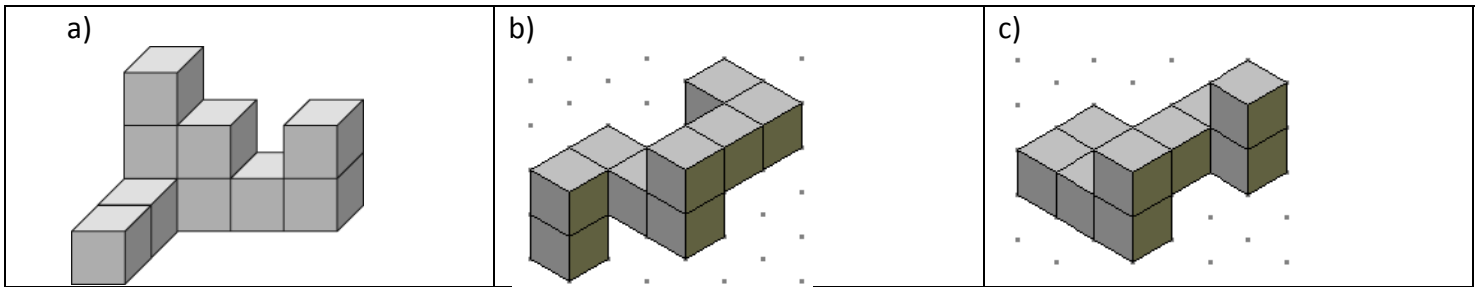


Name: _____

Date: _____

Math 8 HW Section 8.1 – Drawing 3D Shapes

1. Given each diagram, count the number of blocks:



2. Given the images on the left, draw the side views indicated:

	<p style="color: red; font-size: small;">Top View</p>	<p style="color: red; font-size: small;">Front View</p>	<p style="color: red; font-size: small;">Side View</p>		<p style="color: red; font-size: small;">Top View</p>	<p style="color: red; font-size: small;">Front View</p>	<p style="color: red; font-size: small;">Side View</p>
	<p style="color: red; font-size: small;">Top View</p>	<p style="color: red; font-size: small;">Front View</p>	<p style="color: red; font-size: small;">Side View</p>		<p style="color: red; font-size: small;">Top View</p>	<p style="color: red; font-size: small;">Front View</p>	<p style="color: red; font-size: small;">Side View</p>
	<p style="color: red; font-size: small;">Top View</p>	<p style="color: red; font-size: small;">Front View</p>	<p style="color: red; font-size: small;">Side View</p>		<p style="color: red; font-size: small;">Top View</p>	<p style="color: red; font-size: small;">Front View</p>	<p style="color: red; font-size: small;">Side View</p>

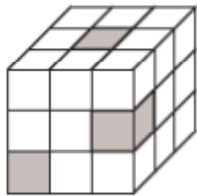
3. Given the views on the left, draw the isometric image with the grid provided:

<p>A.</p> <table style="width: 100%; text-align: center;"> <tr> <td style="border-bottom: 1px solid cyan;">Front</td> <td style="border-bottom: 1px solid cyan;">Right</td> <td style="border-bottom: 1px solid cyan;">Top</td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </table>	Front	Right	Top				<p>B.</p> <table style="width: 100%; text-align: center;"> <tr> <td style="border-bottom: 1px solid cyan;">Front</td> <td style="border-bottom: 1px solid cyan;">Right</td> <td style="border-bottom: 1px solid cyan;">Top</td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </table>	Front	Right	Top				<p>C.</p> <table style="width: 100%; text-align: center;"> <tr> <td style="border-bottom: 1px solid cyan;">Front</td> <td style="border-bottom: 1px solid cyan;">Right</td> <td style="border-bottom: 1px solid cyan;">Top</td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </table>	Front	Right	Top			
Front	Right	Top																		
Front	Right	Top																		
Front	Right	Top																		

4. Given the following images, draw the isometric view and all 3 side views:

		<p style="text-align: center; color: red;">Top View</p>	<p style="text-align: center; color: red;">Front View</p>	<p style="text-align: center; color: red;">Side View</p>
		<p style="text-align: center; color: red;">Top View</p>	<p style="text-align: center; color: red;">Front View</p>	<p style="text-align: center; color: red;">Side View</p>
		<p style="text-align: center; color: red;">Top View</p>	<p style="text-align: center; color: red;">Front View</p>	<p style="text-align: center; color: red;">Side View</p>
		<p style="text-align: center; color: red;">Top View</p>	<p style="text-align: center; color: red;">Front View</p>	<p style="text-align: center; color: red;">Side View</p>

5. A $3 \times 3 \times 3$ cube has been assembled using twenty seven cubes. Then the three $1 \times 1 \times 1$ cubes shaded in the diagram are removed. What is the surface area of the remaining solid?



6. The figure below was constructed by cementing together sixteen 1cm by 1cm by 1cm cubes. What is the surface area of the figure, in cm^2 ?

