

Using Known Areas to Find Unknown Areas

NCTM Standards 1, 2, 6, 7, 8, 9, 10

Find the area of each region.

 has an area of one square unit.

1



blue area	$\frac{1}{2}$
yellow area	
white area	
Total Area	1

2



yellow area	
blue area	
white area	
Total Area	

3



light blue area	
green area	
white area	
Total Area	

4



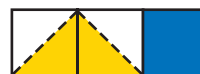
light blue area	
green area	
white area	
Total Area	

5



yellow area	
blue area	
white area	
Total Area	

6



yellow area	
blue area	
white area	
Total Area	

7



light blue area	
green area	
white area	
Total Area	



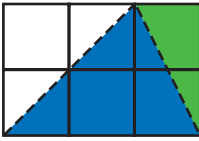
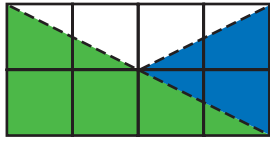

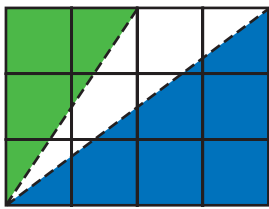
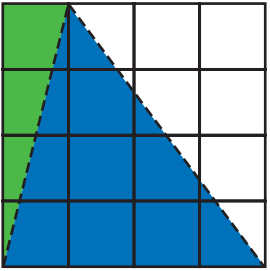
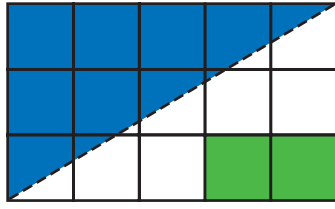
8



light blue area	
green area	
white area	
Total Area	

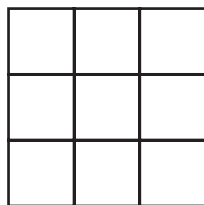
Find the area of each region.

 has an area of one square unit.

<p>9</p> 	<p>10</p> 	<p>11</p> 	<p>12</p> 
<p>13</p> 	<p>14</p> 	<p>15</p> 	<p>16</p> 

	9	10	11	12	13	14	15	16
blue area								
green area								
white area								
Total								

13 Challenge Color the grid to match the table.



lighter shaded area	$1\frac{1}{2}$
darker shaded area	$4\frac{1}{2}$
white area	3
Total Area	9