

Answer Key

Challenge: Skills and Applications

1. 64 2. 32 3. 81 4. 4 5. 2 6. 7 7. 4

8. $\frac{1}{16}$ 9. 16

10.

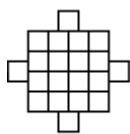


Figure 4

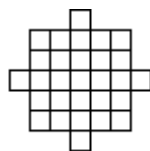


Figure 5

11.

<i>Figure</i>	1	2	3
<i>Area</i>	5	8	13

<i>Figure</i>	4	5
<i>Area</i>	20	29
<i>Pattern</i>	$4^2 + 4$	$5^2 + 4$

12. $n^2 + 4$