

MAFS.4.OA.3.5 Number 1

1. Bullet 2: 26
Bullet 4: 29

2. Bullet 3: 3, 4, 6, 10, 18

3.

Numbers in the pattern
49
25
13
7

4. Multiply by 2 and add 10

5. The triangles are in rows to create a larger triangle. The first triangle is a single triangle. The second triangle adds a row of 3 for a total of 4 triangles. The third adds another row of 5 triangles and a total of 9 triangles. The fourth triangle has a row of 7 added for a total of 16 triangles. Each triangle adds a row that is 2 triangles longer than the triangle before and the rows model consecutive odd numbers 1, 3, 5, 7, and etc. +

Student explanations may vary.

MAFS.4.OA.3.5 Number 2

1.

	40	39	35
7, 14, 21, 28, __			X
75, 66, 57, 48 __		X	
12, 19, 26, 33, __	X		

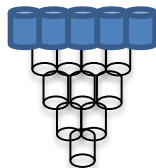
2. Bullet 3: 5, 18, 44, 96, 200

3.

Numbers in the pattern
8
18
48
138

4. Divide by 2 and add 10

5.



MAFS.4.OA.3.5 Number 3																			
1. Bullet 3: 16 Bullet 4:4																			
2. Bullet 2: 4, 8, 16, 32, 64																			
3.	<table border="1"> <tr><th>Numbers in the pattern</th></tr> <tr><td>100</td></tr> <tr><td>25</td></tr> <tr><td>10</td></tr> <tr><td>7</td></tr> </table>	Numbers in the pattern	100	25	10	7													
Numbers in the pattern																			
100																			
25																			
10																			
7																			
4. Multiply by 2 and add 5																			
5. Figure 1 has 3 squares (2 on the base and 1 on top). Figure 2 has 6 squares (3 on the bottom, 2 on the next level and 1 on top). Figure 3 has 10 squares (4 on the bottom, 3 on the next level, 2 on the next level and 1 on top). Figure 4 has 15 squares (5 on the bottom, 4 on the next level up, 3 on the next level up, 2 on the next level up, and 1 on top.) If the pattern were to continue, there would be 21 squares (6 on the bottom, 5 on the next level, 4 on the next level, 3 on the next level, 2 on the next level, and 1 on top).																			
MAFS.4.OA.3.5 Number 4																			
1	<table border="1"> <tr><td></td><td>42</td><td>77</td><td>34</td></tr> <tr><td>14, 19, 24, 29, ___</td><td>X</td><td></td><td></td></tr> <tr><td>12, 14, 18, 26, ___</td><td></td><td></td><td>X</td></tr> <tr><td>2, 7, 17, 37, ___</td><td></td><td>X</td><td></td></tr> </table>		42	77	34	14, 19, 24, 29, ___	X			12, 14, 18, 26, ___			X	2, 7, 17, 37, ___		X			
	42	77	34																
14, 19, 24, 29, ___	X																		
12, 14, 18, 26, ___			X																
2, 7, 17, 37, ___		X																	
2. Bullet 1: 7, 20, 46, 98, 200																			
3.	<table border="1"> <tr><th>Numbers in the pattern</th></tr> <tr><td>10</td></tr> <tr><td>20</td></tr> <tr><td>40</td></tr> <tr><td>80</td></tr> </table>	Numbers in the pattern	10	20	40	80													
Numbers in the pattern																			
10																			
20																			
40																			
80																			
4. Subtract 20 and add 2																			
5.																			
MAFS.4.OA.3.5 Number 5																			
1. Bullet 1: 3																			

[Type here]

2. Bullet 4: 6, 16, 36, 76, 156

3.

Numbers in the pattern
72
40
24
16

4. Multiply by 3 and add 10

5. The first image has 1 center square and 1 square attached to each vertex of the center square for a total of 5 squares. ($1 = 5$) The second image has 1 center square and 2 squares attached to each vertex of the center square for a total of 7 squares ($2 = 7$) The third images adds another 4 squares - 1 per vertex. ($3 = 13$). The fourth image adds another 4 for a total of 17 squares. The relationship is that each image adds a set of 4 squares to each of the four sides. Answers will vary.