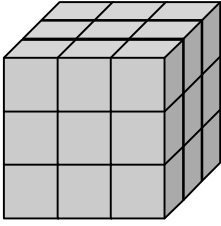


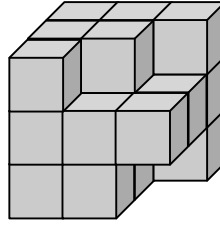
# CUBES

In each of the following arrangements find the number of cubes.  
Hint: find the number of cubes missing from the original large cube.

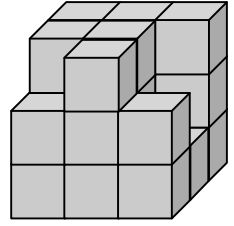
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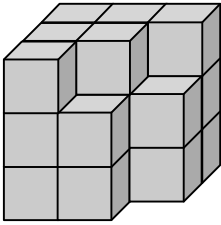
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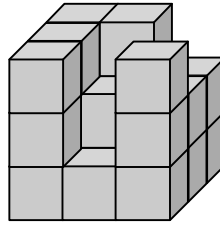
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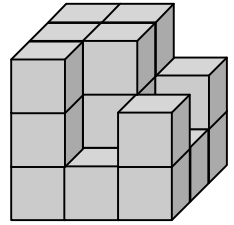
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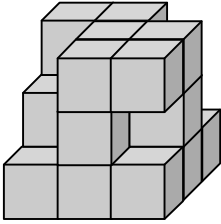
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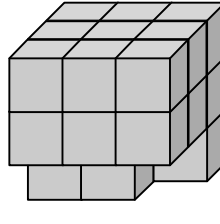
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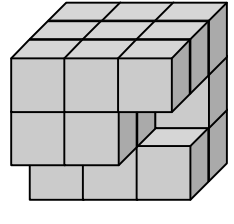
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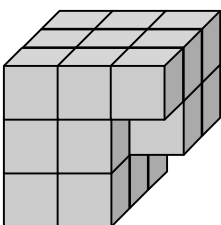
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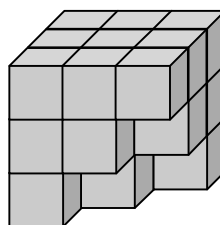
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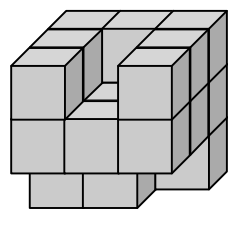
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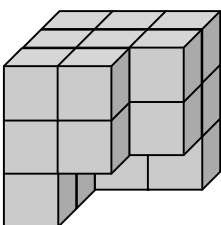
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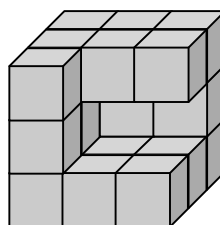
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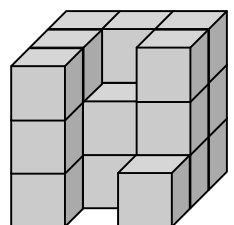
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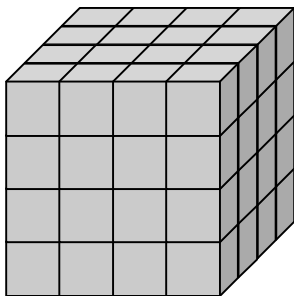
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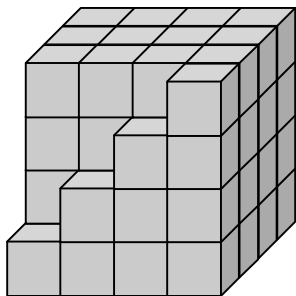
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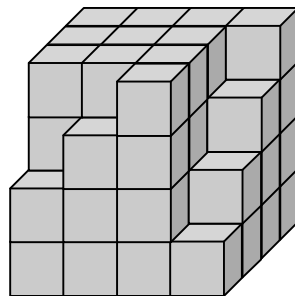
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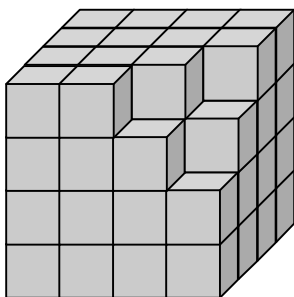
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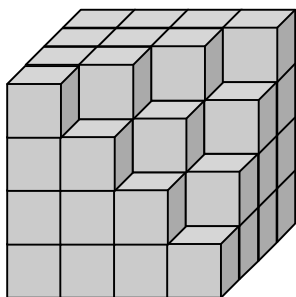
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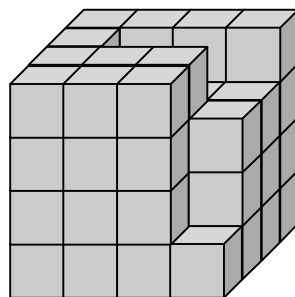
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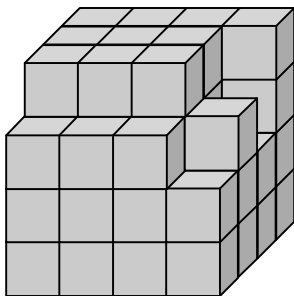
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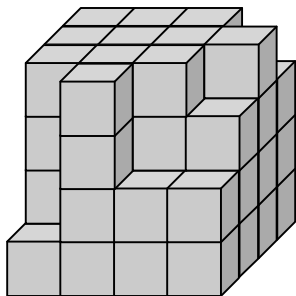
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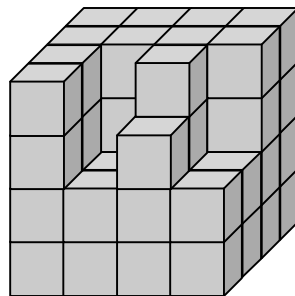
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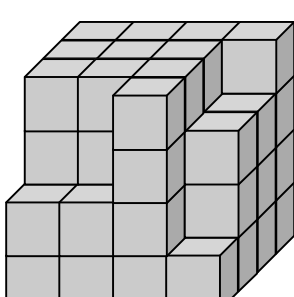
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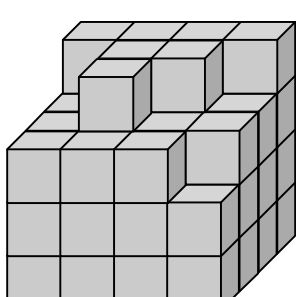
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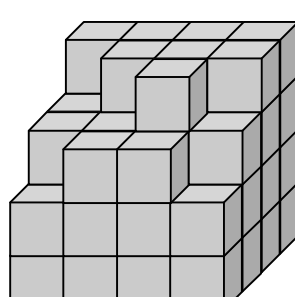
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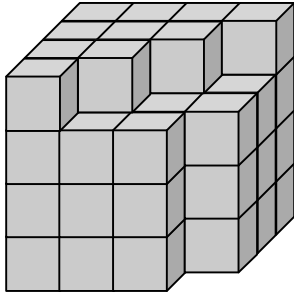
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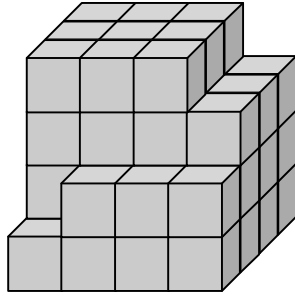
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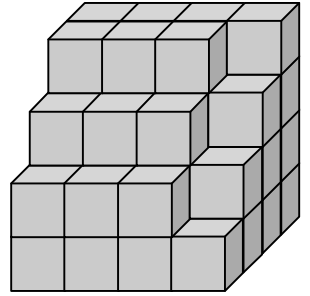
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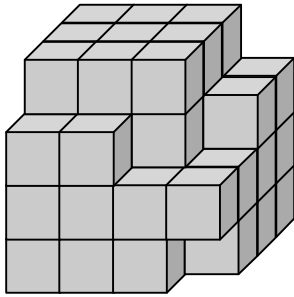
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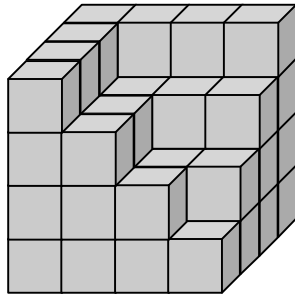
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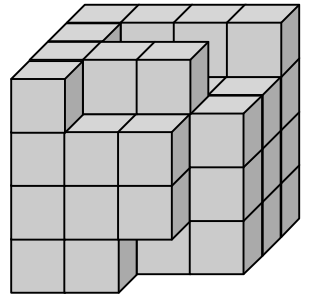
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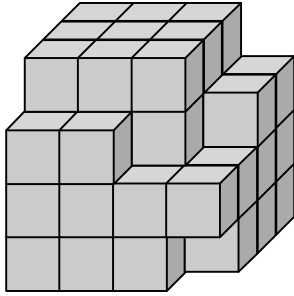
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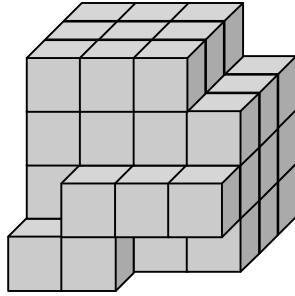
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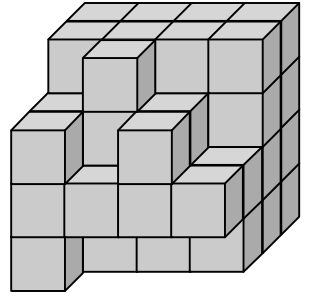
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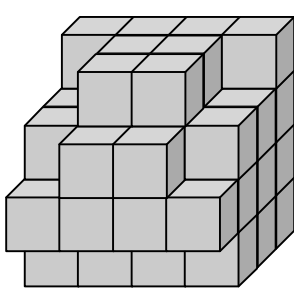
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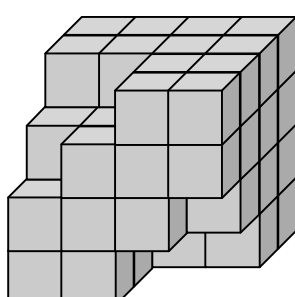
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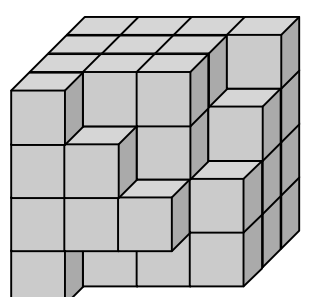
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38.

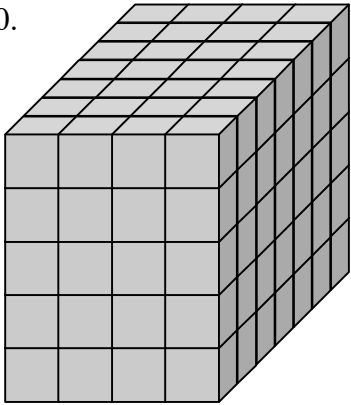


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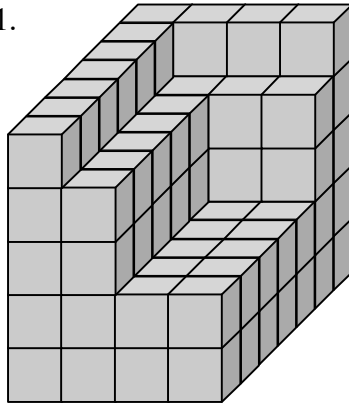


Hint: first split the arrangements into separate parts.

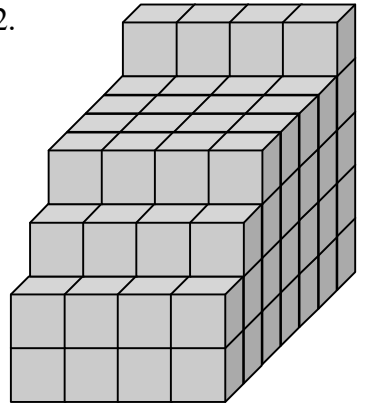
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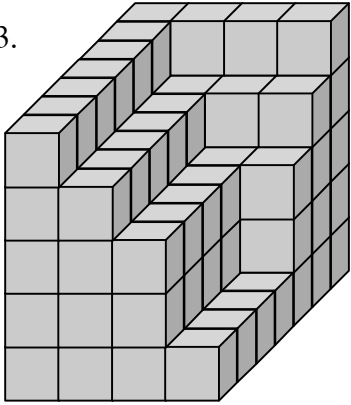
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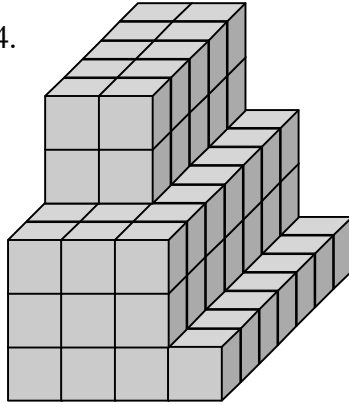
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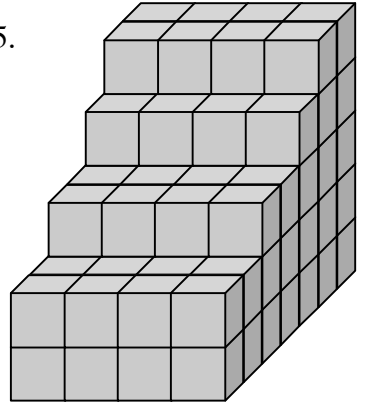
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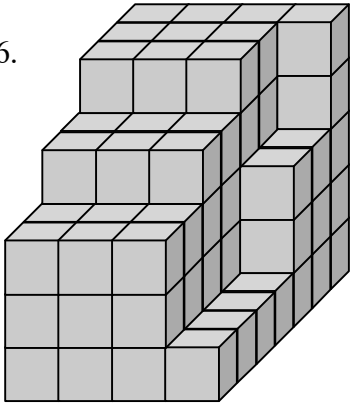
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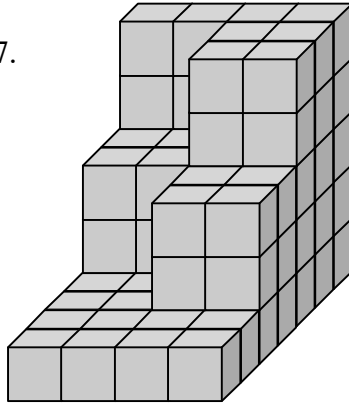
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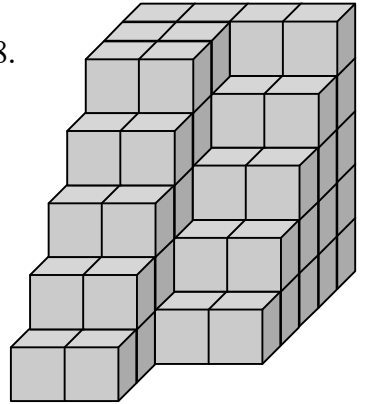
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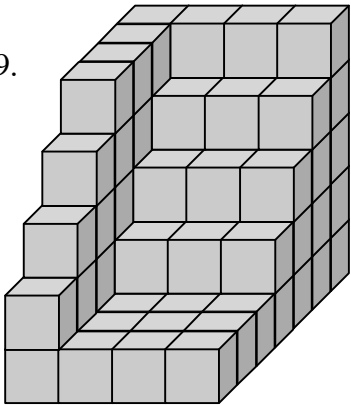
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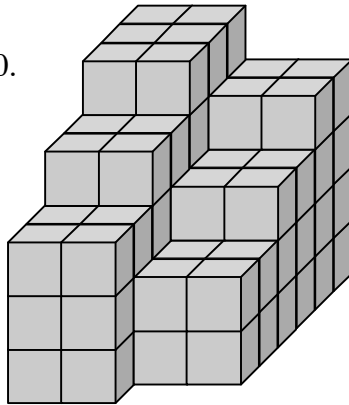
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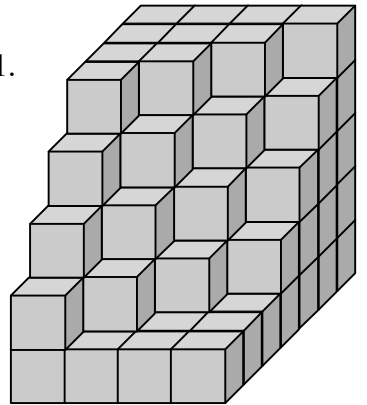
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50.

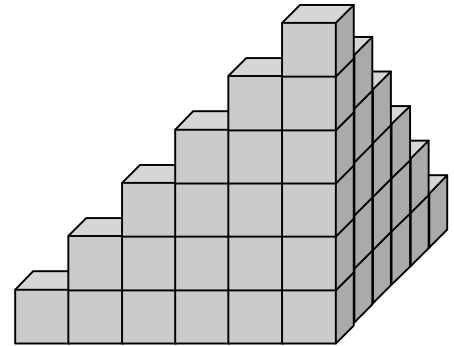
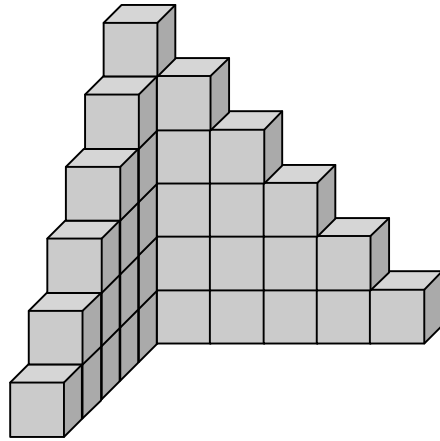


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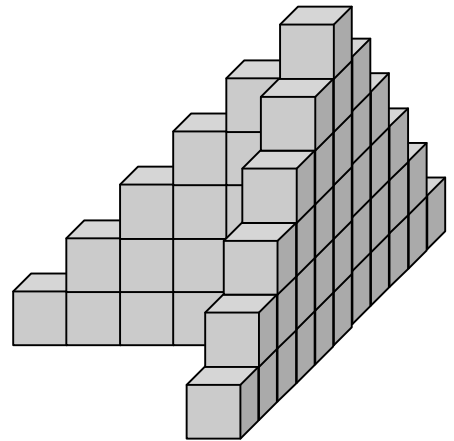
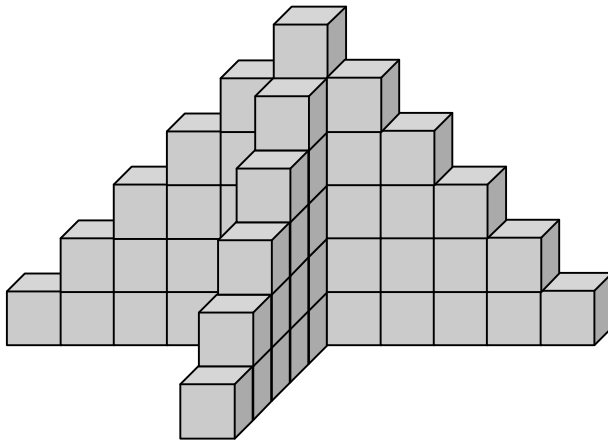


In each of the following, to help find the number of cubes, different views of the arrangement are shown.

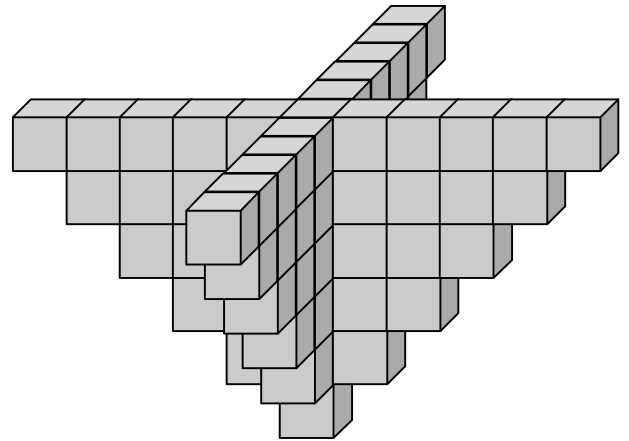
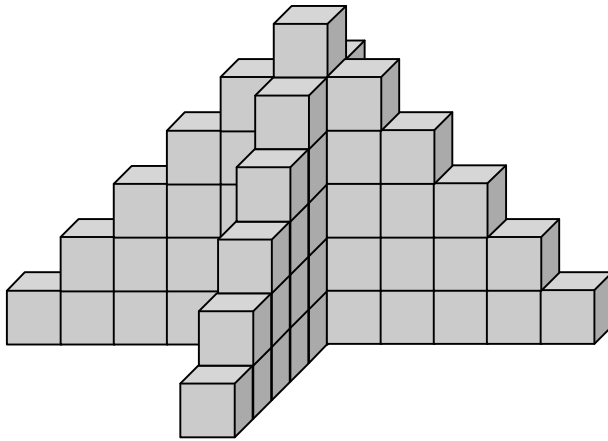
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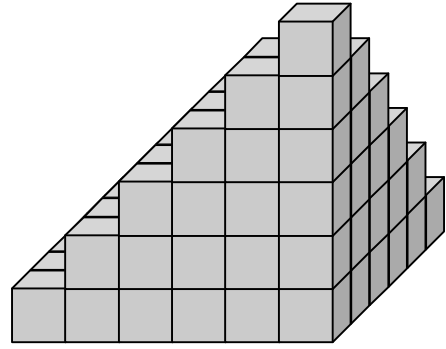
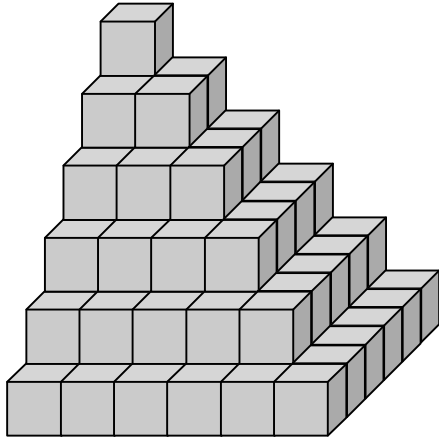
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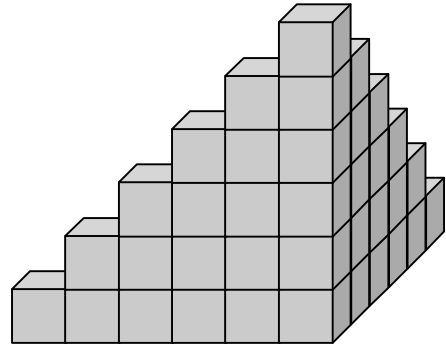
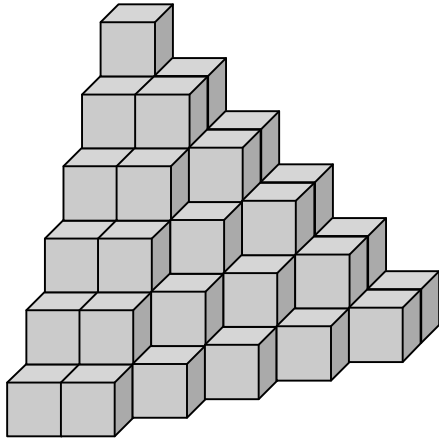
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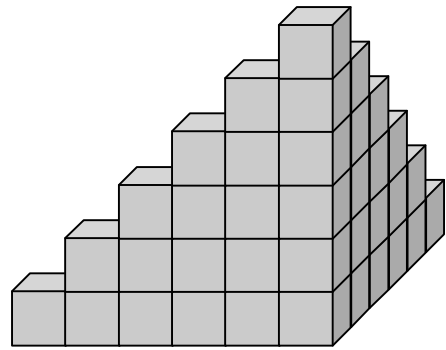
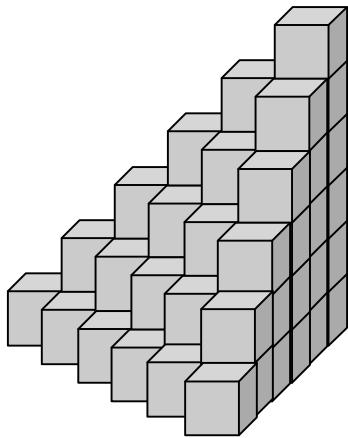
55.



56.



57.



ANSWERS:

- |                |                |                |               |               |                |               |                |
|----------------|----------------|----------------|---------------|---------------|----------------|---------------|----------------|
| 1. <b>27</b>   | 2. <b>22</b>   | 3. <b>23</b>   | 4. <b>22</b>  | 5. <b>22</b>  | 6. <b>21</b>   | 7. <b>21</b>  | 8. <b>23</b>   |
| 9. <b>22</b>   | 10. <b>23</b>  | 11. <b>23</b>  | 12. <b>21</b> | 13. <b>21</b> | 14. <b>21</b>  | 15. <b>21</b> | 16. <b>64</b>  |
| 17. <b>58</b>  | 18. <b>55</b>  | 19. <b>60</b>  | 20. <b>54</b> | 21. <b>57</b> | 22. <b>56</b>  | 23. <b>55</b> | 24. <b>55</b>  |
| 25. <b>55</b>  | 26. <b>54</b>  | 27. <b>54</b>  | 28. <b>55</b> | 29. <b>52</b> | 30. <b>49</b>  | 31. <b>53</b> | 32. <b>50</b>  |
| 33. <b>53</b>  | 34. <b>53</b>  | 35. <b>50</b>  | 36. <b>51</b> | 37. <b>50</b> | 38. <b>54</b>  | 39. <b>52</b> | 40. <b>140</b> |
| 41. <b>102</b> | 42. <b>104</b> | 43. <b>104</b> | 44. <b>90</b> | 45. <b>96</b> | 46. <b>102</b> | 47. <b>76</b> | 48. <b>80</b>  |
| 49. <b>80</b>  | 50. <b>94</b>  | 51. <b>92</b>  | 52. <b>36</b> | 53. <b>51</b> | 54. <b>66</b>  | 55. <b>91</b> | 56. <b>71</b>  |
| 57. <b>56</b>  |                |                |               |               |                |               |                |