4–3 Name _____ Date _____

Challenge

Tower to Tower

Use a number cube (labeled 1–6) and 30 connecting cubes.
Roll the number cube and take that many connecting cubes.
Build a tower. Continue until you have built 5 towers in this way.

1. Draw the 5 towers that you built.

Tower 1	Tower 2	Tower 3	Tower 4	Tower 5

2. Complete the table.

Tower	Number of Cubes
1	
2	
3	
4	
5	

3. Compare Tower 1 to Tower 5. Use the > or < symbols.

_____

4. Compare Tower 2 to Tower 4. Use the > or < symbols.

_____

5. **Extend Your Thinking** Can Tower 6 have 7 connecting cubes? Explain your thinking.

_____

_____

4–3 Name _____ Date _____

Challenge

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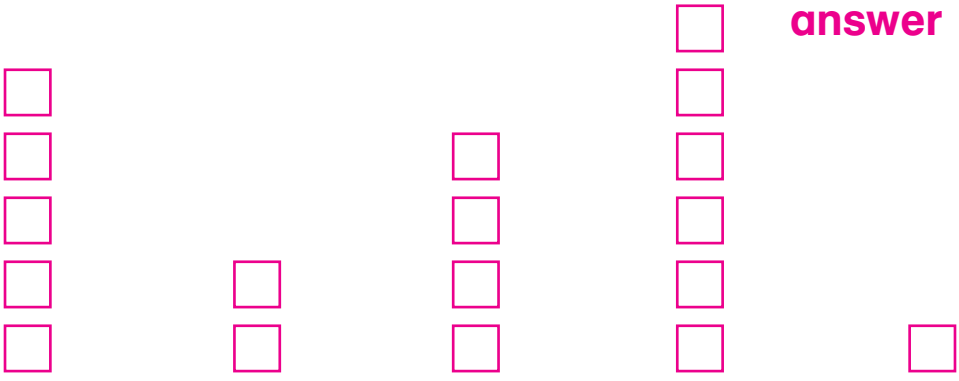
1. Draw the 5 towers that you built.

Drawings will vary. Possible answer shown.



Tower 1	Tower 2	Tower 3	Tower 4	Tower 5

2. Complete the table.

Tables will vary. Sample data given.

Tower	Number of Cubes
1	5
2	2
3	4
4	6
5	1

3. Compare Tower 1 to Tower 5. Use the > or < symbols.

Possible answer: Tower 1 > Tower 5

4. Compare Tower 2 to Tower 4. Use the > or < symbols.

Possible answer: Tower 2 < Tower 4

5. **Extend Your Thinking** Can Tower 6 have 7 connecting cubes? Explain your thinking. **No. Possible explanation: The most connecting cubes any tower can have is 6 because that's the greatest number on the number cube.**