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Student Activity Book

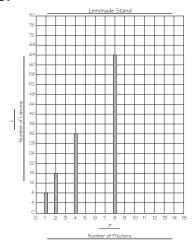
Making Lemonade (SAB pp. 386–389) Questions 1–11

I. A.*

Lemonade Stand

P Number of Pitchers	L Number of Lemons
1	8
2	16
4	32
8	64

- **B.*** Possible patterns: The number of pitchers doubles each time. The number of lemons also doubles each time. To find the number of lemons you can multiply the number of pitchers times 8.
- 2. A-C.*



D.* Possible patterns: The bars on the graph go up like a stair step. There are some spaces that do not have any bars drawn in. As you move to the right on the graph, each bar is twice as tall as the one before it.

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^{*}Answers and/or discussion are included in the lesson.

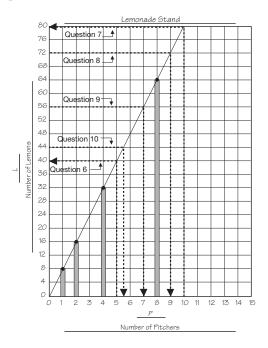
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- **3. A.*** They will need 48 lemons.
 - B.* Possible strategy using the data table: I looked at my data table and saw that they would need 16 lemons for two pitchers and 32 lemons for four pitchers, so I added 16 and 32 to find how many lemons for 6 pitchers, 48.

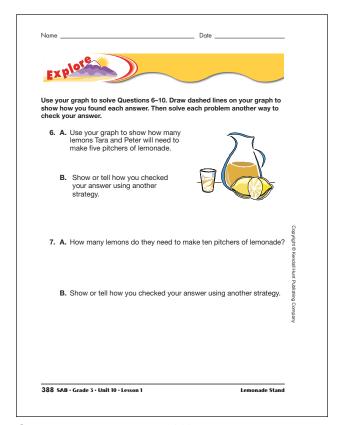
Possible strategy using the graph: I noticed that the tops of the bars formed a straight line so I used my ruler to make a line and then I sketched in a bar to show 6 pitchers of lemonade. The bar stopped at 48 lemons.

- **4.*** Possible response: Yes, the dots look like they lie on a straight line. See Figure 3 in the lesson.
- **5.***See Figure 3 in the lesson.

For *Questions 6A*, 7A, 8A, 9A and 10A, the graph in Figure 4 shows solutions using interpolation and extrapolation.

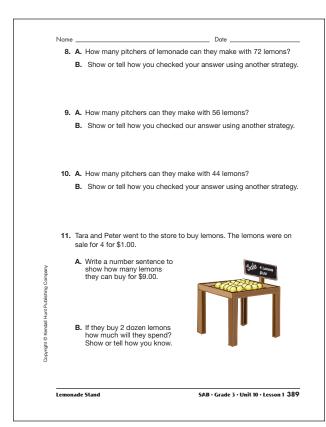


- **6. A.*** They will need 40 lemons.
 - **B.** Possible response: I added 8 + 8 + 8 + 8 + 8 = 40 lemons.
- **7. A.*** They will need 80 lemons.
 - **B.** Possible response: I multiplied $10 \times 8 = 80$ lemons.



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^{*}Answers and/or discussion are included in the lesson.



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- **8. A.*** They can make 9 pitchers of lemonade.
 - **B.** I used my answer from Question 7. I know that you can make 10 pitchers with 80 lemons. Since 80 8 = 72 lemons, you can make 1 less pitcher of lemonade, or 9 pitchers.
- **9. A.*** They can make 7 pitchers of lemonade.
 - **B.** Possible response: I know I will use 40 lemons to make 5 pitchers of lemonade and 16 lemons to make 2 pitchers of lemonade, since 40 + 16 = 56 lemons, you can make 5 + 2 = 7 pitchers of lemonade.
- **10. A.*** Possible response: They can make 5 pitchers of lemonade with four lemons leftover.
 - **B.** Possible response: I drew a picture of 44 lemons and divided them into 5 groups of 8 lemons. I had four lemons left over.
- **II.** A.* 4 lemons per dollars \times \$9.00 = 36 lemons

B. \$6.00; Possible response: There are 24 lemons in 2 dozen. I know that you can buy 12 lemons for \$3.00. So, I doubled that to buy 24 lemons.

^{*}Answers and/or discussion are included in the lesson.