

# SPROUTING IN THE DARK

Ankur and Bankur had heard that seeds sprout better in the dark than in the light. But they wanted to find out for themselves if this is really true.

So they took two jars, and in each jar they put some wet cotton and 10 rajma. One jar they kept in light and the other jar they kept in a dark cupboard.

Each day Ankur and Bankur checked the jars to see how many seeds had sprouted. They wrote what they found in this Table:

	<b>Total Number of Seeds that have Sprouted</b>								
	<b>4 Feb</b>	<b>5 Feb</b>	<b>6 Feb</b>	<b>7 Feb</b>	<b>8 Feb</b>	<b>9 Feb</b>	<b>10 Feb</b>	<b>11 Feb</b>	<b>12 Feb</b>
Seeds in the dark	0	0	2	3	6	7	9	9	9
Seeds in the light	0	1	3	3	4	6	8	8	8

1. Make a line graph to show these results (use graph paper).

**Look at your graph to answer the following questions:**

2. Did the first seed sprout in the dark or in the light? \_\_\_\_\_
3. How many seeds had sprouted in the dark by 6 Feb? \_\_\_\_\_
4. On Feb 13 had more seeds sprouted in the dark or in the light? \_\_\_\_\_
5. At the end of the experiment did more seeds sprout in the dark or in the light? \_
6. Does the line on the graph that shows seeds sprouting in the dark ever cross the line that shows seeds sprouting in the light? Explain why or why not.

---

---

---

---

7. If Ankur and Bankur had kept the jars longer, what do you think would have happened on 12, 13, 14, . . . Feb?

---

---

---

8. If Ankur and Bankur did the same experiment again, do you think they would get exactly the same results? Explain.

---

---

---

---

Suppose Ankur and Bankur repeat the same experiment with mustard seeds. What will happen? will they get the same results?

---

---

---

---

9. Do these results give a clear and definite answer to the question Ankur and Bankur wanted to answer? If so, what is the answer? If not, why not? Explain.

---

---

---

---

10. Do you think Ankur and Bankur made any mistakes or did anything wrong in the way they did this experiment? \_\_\_\_\_

---

---

---

---

11. Can you think of a better way to find the answer to their question? \_\_\_\_\_

---

---

---

---

---

---