

# Candy on the Open Range

Open Range Bag	
Draw Brand <input type="checkbox"/>	Draw Brand <input type="checkbox"/>
# Collected a. _____	# Collected b. _____

Ranch / Pasture Bag	
Draw Brand <input type="checkbox"/>	Draw Brand <input type="checkbox"/>
# Collected c. _____	# Collected d. _____

1. Calculate the % collected of each brand.

$$\% \text{ Found} = \frac{\# \text{ Collected}}{\text{Total \# (10 pieces)}} \times 100\%$$

% Collected

a. \_\_\_\_\_ b. \_\_\_\_\_ c. \_\_\_\_\_ d. \_\_\_\_\_

2. Was more candy collected on the open range or in the fenced pasture? \_\_\_\_\_

How do you account for this difference? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

3. What are some advantages of the open range? \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

4. What are some disadvantages of the open range? \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

5. What are some advantages of a fenced pasture? \_\_\_\_\_

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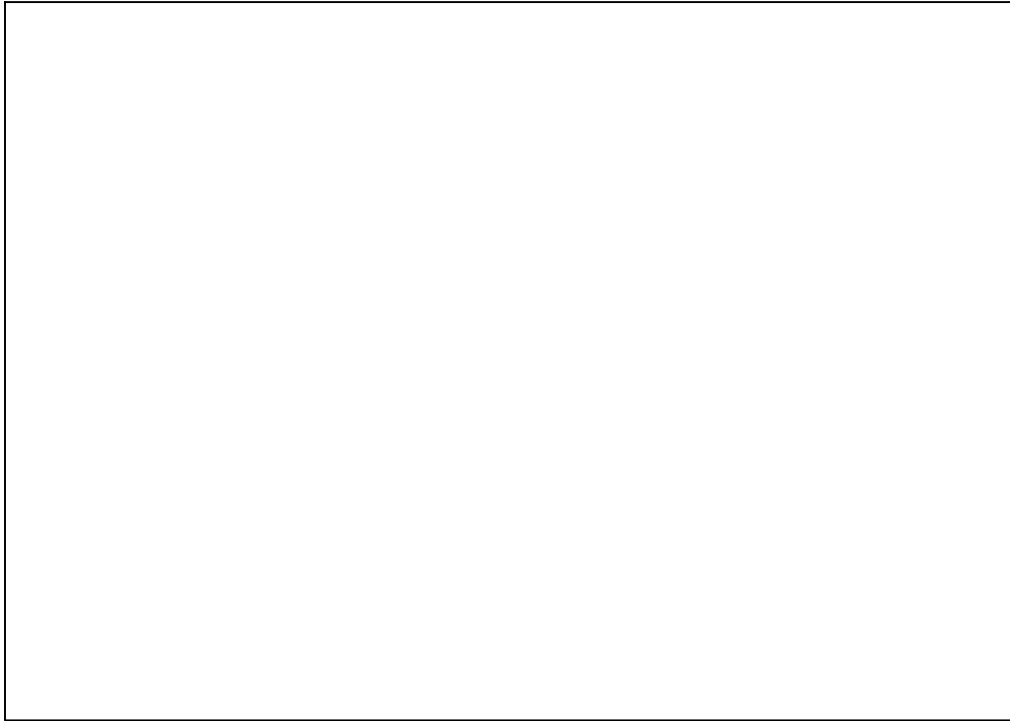
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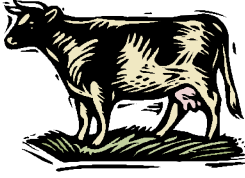
6. What are some disadvantages of a fenced pasture? \_\_\_\_\_

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7. Individual brands helped the owners identify their cattle on the open range. The cattle brands were simple but effective. Design and draw your own brand below.





## Candy on the Open Range Answers Sheet

Open Range Bag	
<p style="text-align: center; margin: 0;"><b>Draw Brand</b></p> <div style="border: 1px solid black; padding: 5px; margin: 5px auto; width: 80%; text-align: center; color: red;">           Design from the candy         </div> <p style="margin: 5px 0;"># Collected</p> <p style="margin: 0 0 0 20px; color: red;">a. <u>Your results</u></p>	<p style="text-align: center; margin: 0;"><b>Draw Brand</b></p> <div style="border: 1px solid black; padding: 5px; margin: 5px auto; width: 80%; text-align: center; color: red;">           Design from the candy         </div> <p style="margin: 5px 0;"># Collected</p> <p style="margin: 0 0 0 20px; color: red;">b. <u>Your results</u></p>

Ranch / Pasture Bag	
<p style="text-align: center; margin: 0;"><b>Draw Brand</b></p> <div style="border: 1px solid black; padding: 5px; margin: 5px auto; width: 80%; text-align: center; color: red;">           Design from the candy         </div> <p style="margin: 5px 0;"># Collected</p> <p style="margin: 0 0 0 20px; color: red;">c. <u>Your results</u></p>	<p style="text-align: center; margin: 0;"><b>Draw Brand</b></p> <div style="border: 1px solid black; padding: 5px; margin: 5px auto; width: 80%; text-align: center; color: red;">           Design from the candy         </div> <p style="margin: 5px 0;"># Collected</p> <p style="margin: 0 0 0 20px; color: red;">d. <u>Your results</u></p>

1. Calculate the % collected of each brand.

$$\% \text{ Found} = \frac{\# \text{ Collected (Results)}}{\text{Total \# (10 pieces)}} \times 100\%$$

% Collected - Use equation above to complete this section

a. \_\_\_\_\_ b. \_\_\_\_\_ c. \_\_\_\_\_ d. \_\_\_\_\_

2. **Was more candy found on the open range or in the fenced pasture?** More candy should be found in the fenced pasture. How do you account for this difference? The activity should show the students that the open range was huge; it extended for millions of acres. A typical roundup could take weeks because the open range was so large. During a real roundup cattle drifted from the herd. The cattle could be in a valley, behind a hill or on the other side of a river. There were many physical obstacles on the open range. Accept other reasonable answers.

The following PBS website will help the students understand the size of an acre:

<http://www.pbs.org/teachersource/mathline/concepts/farmingandgardening/activity3.shtm>

3. **What are some advantages of the open range?** South Dakota had many streams and rivers for the cattle to drink water. Also, snow could be used as a water source for the cattle. The cost of the grass (feed) was free. The cows fattened up quickly because the

grass was high in nutritional value. The grass stood up in the snow. Accept other reasonable answers.

**4. What are some disadvantages of the open range?** It was very easy for rustlers to steal cattle. Calves or weak cattle may have been killed by coyotes or other predators. The roundups took a long time to complete. There was no protection for cattle during a blizzard and the grass was often covered by deep snow. Accept other reasonable answers.

**5. What are some advantages of a fenced pasture?** The safety of the cattle was increased. Ranchers were able to provide a wind break during a winter storm. The ranchers provided hay for the cattle when the grass was covered by snow. The rancher could monitor rustlers trying to steal cattle. The risk of cattle wandering off and not being found was reduced. Accept other reasonable answers.

**6. What are some disadvantages of a fenced pasture?** The fence needed to keep the cattle from wandering off was very costly and high maintenance. The ranchers had to gather hay for the cattle and provide them with water. The extra labor and cost required to fence a section of land reduced the number of cattle a rancher could have. Accept any reasonable answer.

7. Individual brands helped the owners identify their cattle on the open range. The cattle brands were simple but effective. Design and draw your own brand below.

