

Comparing Mixtures App Tasks - Example Answers



*This page includes selected example answers and approaches.
Other approaches and answers may be possible and appropriate.*



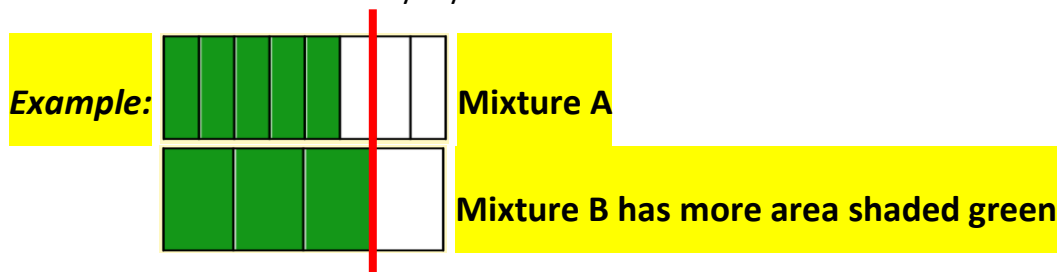
1. Which Mix is Darker?

Mixture A
 ___ 5 ___ cups Green ___ 3 ___ cups White

Mixture B
 ___ 3 ___ cups Green ___ 1 ___ cup White

- 1.1 **Predict** which mixture will make a **darker** shade of green (select one): ___ A will be darker
(Answers will vary.) ___ B will be darker
- 1.2 Use the Comparing Mixtures applet to represent the two mixtures.
 Select one or more *visuals* (tape diagram 1, tape diagram 2, etc.) to compare the mixtures.
 Complete the sentence frame with your answer and draw a visual.

I found out that Mixture **B** made a **darker** green than Mixture **A**.
 Here is a *visual* that shows why my answer is correct:



2. Mystery Mix: A is Darker

Tanya has 2 new mixtures. She knows that **Mixture A** is a **darker** shade of green than Mixture B.
 Tanya does not know the amount of green paint in Mixture A or the amount of white paint in Mixture B.

- 2.1. Use the Comparing Mixtures applet to find the missing amounts of paint. You can use **1 to 12 cups** of each kind of paint. Write your answers below.

Mixture A is darker
 ___ cups Green ___ 5 ___ cups White

Mixture B is lighter
 ___ 8 ___ cups Green ___ cups White

- 2.2. Find **other** answers to this problem. List your answers below.

Answers will vary. Example answer:

Mixture A has 6 cups of green and Mixture B has 8 cups of white (similarly, if Mixture A has 6 or more cups of green for 5 cups of white, and Mixture B has 8 cups of green and 8 or more cups of white, Mixture A will be darker)

- 2.3. What strategies did you use to find the missing amounts?

(Answers will vary.)