

## Solving Ratio Problems with Strip Diagrams

1. To make a punch, cherry juice and lemon-lime soda are mixed in a ratio of 3 : 5. Use pictures to help you solve the following problems. Show your work.

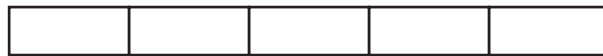
(a) To make the punch with 30 cups of lemon-lime soda, how many cups of cherry juice will you need? Answer: \_\_\_\_\_

How much punch will this make? Answer: \_\_\_\_\_

Cherry  
juice:



Lemon-lime  
soda:



(b) To make the punch with 21 cups of cherry juice, how many cups of lemon-lime soda will you need? Answer: \_\_\_\_\_

How much punch will this make? Answer: \_\_\_\_\_

(c) To make 64 cups of punch how many cups of cherry juice and how many cups of lemon-lime soda will you need?

Cherry juice: \_\_\_\_\_

Lemon-lime soda: \_\_\_\_\_

2. A store ordered 2 times as many boxes of brand A cereal as brand B cereal. The store ordered a total of 246 boxes of cereal.

How many boxes of brand B cereal did the store order? Answer: \_\_\_\_\_

How many boxes of brand A cereal did the store order? Answer: \_\_\_\_\_

Brand A cereal: 

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Brand B cereal: 

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3. A store ordered 3 times as many cans of brand A soup as brand B soup. The store ordered a total of 184 cans of soup.

How many cans of brand B soup did the store order? Answer: \_\_\_\_\_

How many cans of brand A soup did the store order? Answer: \_\_\_\_\_

4. Four out of every 5 dentists who were surveyed recommend brand A toothpaste. If 2400 dentists were surveyed, how many recommended brand A toothpaste?

Answer: \_\_\_\_\_

