Double Number Lines

Ratios & Rates • Answer Key

ANSWER KEY • Amplify Alignment: Grade 6 Accelerated, Unit 2, Lesson 4

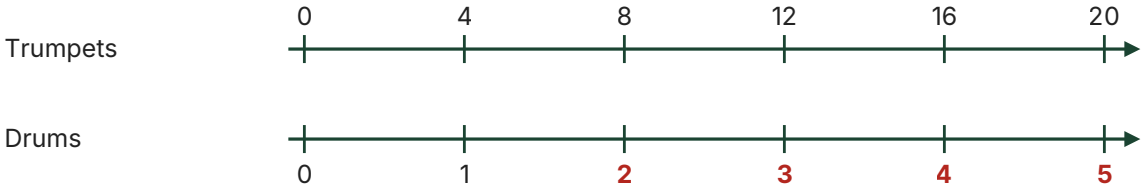
1. In a choir, the ratio of sopranos to altos is 3 : 5. Complete the double number line. Then list two other combinations of sopranos and altos for a different choir with the same ratio.



Sopranos	Altos
6	10
9	15

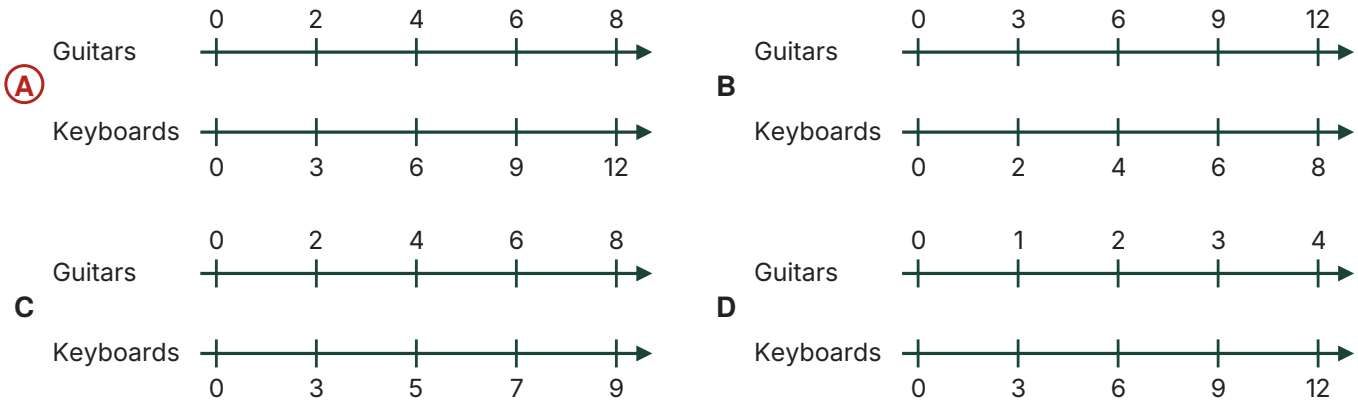
Any pair from the number line (or beyond it) in the ratio 3 : 5 is correct.

2. In a marching band, the ratio of trumpets to drums is 4 : 1. Complete the double number line. Then list two other combinations of trumpets and drums for a larger band with the same ratio.



Trumpets	Drums
8	2
12	3

3. In a music class, the ratio of guitars to keyboards is 2 : 3. Which double number line correctly shows this ratio?

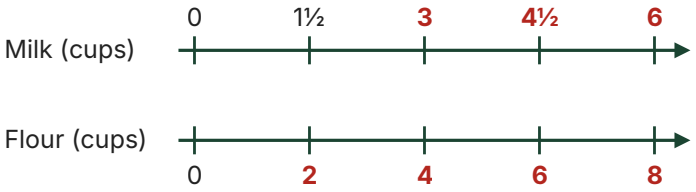


Problems 4–7: Use the pancake recipe.

Pancakes — 1 batch

Ingredient	Amount
Flour	2 cups
Milk	$1\frac{1}{2}$ cups
Eggs	2
Salt	$\frac{1}{2}$ tsp
Baking powder	4 tsp
Sugar	1 tbsp

4. Complete the double number line for the amounts of milk and flour in 1, 2, 3, and 4 batches.

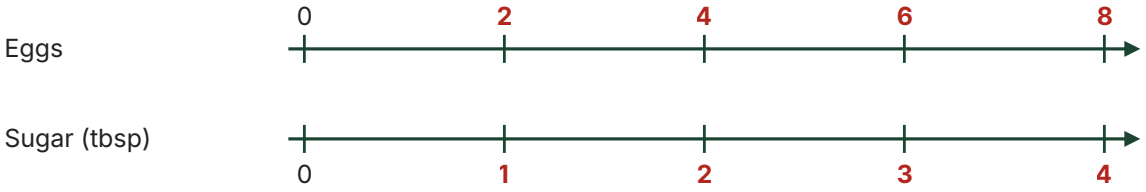


5. Ellie is making several batches of pancakes.

a If Ellie uses 2 teaspoons of salt, how many batches can she make? **4 batches**

b If Ellie uses 20 teaspoons of baking powder, how many batches can she make? **5 batches**

6. Draw a double number line to represent the amounts of eggs and sugar in the recipe.



7. Marcus wants to make 3 batches of pancakes. He says he will need $4\frac{1}{2}$ cups of milk, 6 cups of flour, and 2 teaspoons of salt. Is Marcus correct? Explain your thinking.

Not completely. The milk ($1\frac{1}{2} \times 3 = 4\frac{1}{2}$) and flour ($2 \times 3 = 6$) are correct, but the salt should be $\frac{1}{2} \times 3 = 1\frac{1}{2}$ teaspoons, not 2.