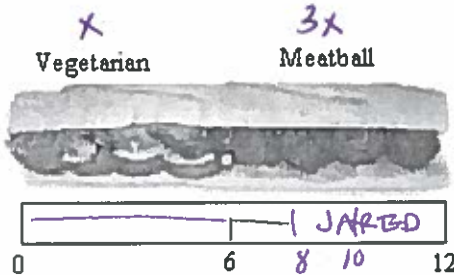


Key

Jared and Karla jointly bought the half meatball-half vegetarian 12 in sub for \$10.00. They plan to divide the sandwich fairly using the divider-chooser method. Jared likes meatball subs three times as much as vegetarian subs; Karla is a vegetarian and does not eat meat. Assume that Jared doesn't know that Karla is vegetarian. Assume also that the sandwich is cut along its width.



1. Determine how Jared should cut the sandwich into two shares s_1 and s_2 . (Describe different shares of the sandwich using the ruler and interval notation. For example, $[0, 6]$ describes the vegetarian half.)

$$s_1: [0, 8] \quad s_2: [8, 12]$$

2. After Jared cuts, Karla gets to choose. Specify which share s_1 or s_2 Karla should choose.

s_1

3. What is the value of this share to Karla?

$$\$10.00 \quad (100\%)$$