

**Exercise:**

A food company that produces peanut butter decides to try out a new version of its peanut butter that is extra chunky, using twice the number of peanut chunks as normal. The company hosts a sampling of its new product at grocery stores and finds that **5 out of every 9 customers prefer the new crunchy version over the regular peanut butter.**

- a. The ratio of number preferring Crunchy PB to the Total Surveyed is \_\_\_\_\_
- b. The ratio of number preferring Regular PB to the Total Surveyed is \_\_\_\_\_
- c. The ratio of number preferring Regular PB to the Crunchy PB is \_\_\_\_\_
- d. The ratio of number preferring Crunchy PB to the Regular PB is \_\_\_\_\_

i. The number preferring Crunchy PB is  $\frac{\square}{\square}$  of the Total Surveyed.

ii. The number preferring Regular PB is  $\frac{\square}{\square}$  of the Total Surveyed.

iii. The number preferring Regular PB is  $\frac{\square}{\square}$  of the number preferring Crunchy PB.

iv. The number preferring Crunchy PB is  $\frac{\square}{\square}$  of the number preferring Regular PB.

I. Express the ratio of number preferring Regular PB to the Crunchy PB as a **decimal**.

II. Express the ratio of number preferring Crunchy PB to the Regular PB as a **decimal**.

Solve the following problems using **BAR DIAGRAMS**.

1. If the company decides to produce 2,000 containers of Regular PB, how many containers of the Crunchy PB would it produce?

2. If the company decides to produce 6,300 Total Containers of PB, how many containers of Regular PB would it produce?

3. If the company produced 300 more containers of Crunchy PB than Regular PB, how many total containers would it produce?

Exercise:

A food company that produces peanut butter decides to try out a new version of its peanut butter that is extra chunky, using twice the number of peanut chunks as normal. The company hosts a sampling of its new product at grocery stores and finds that 5 out of every 9 customers prefer the new crunchy version over the regular peanut butter.

a. The ratio of number preferring Crunchy PB to the Total Surveyed is 5:9

b. The ratio of number preferring Regular PB to the Total Surveyed is 4:9

c. The ratio of number preferring Regular PB to the Crunchy PB is 4:5

d. The ratio of number preferring Crunchy PB to the Regular PB is 5:4

i. The number preferring Crunchy PB is  $\frac{5}{9}$  of the Total Surveyed.

5 Crunchy

ii. The number preferring Regular PB is  $\frac{4}{9}$  of the Total Surveyed.

4 Regular

9 Total

iii. The number preferring Regular PB is  $\frac{4}{5}$  of the number preferring Crunchy PB.

iv. The number preferring Crunchy PB is  $\frac{5}{4}$  of the number preferring Regular PB.

I. Express the ratio of number preferring Regular PB to the Crunchy PB as a **decimal**.

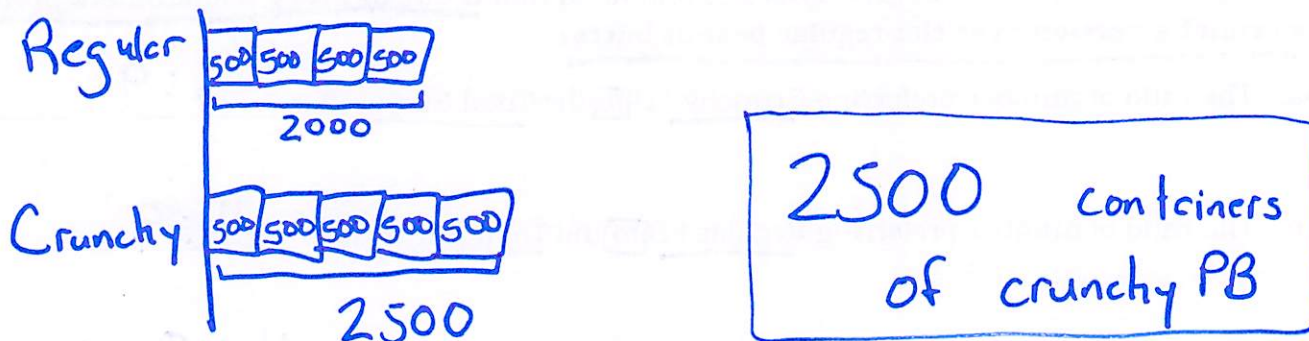
$$4:5 \quad \frac{4}{5} = 0.8$$

II. Express the ratio of number preferring Crunchy PB to the Regular PB as a **decimal**.

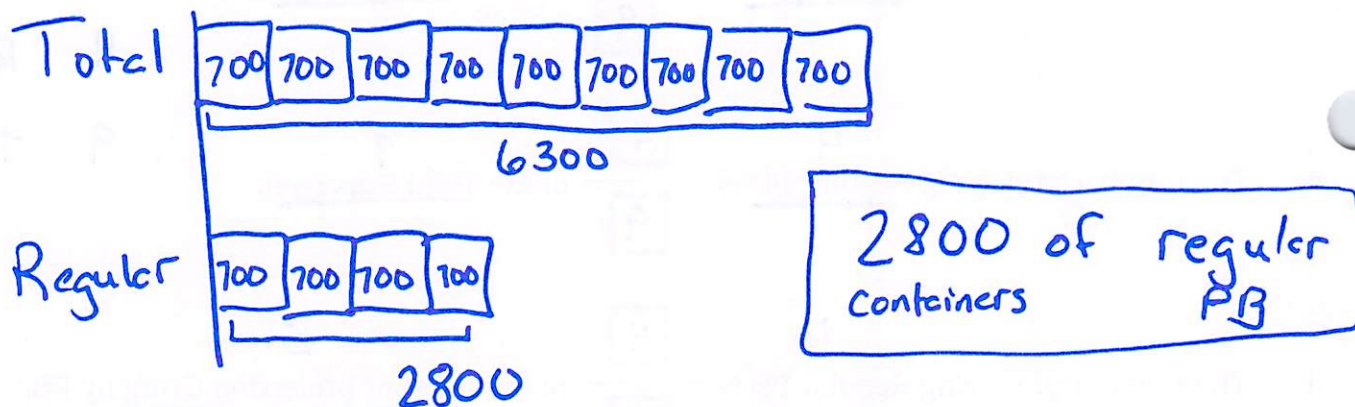
$$5:4 \quad \frac{5}{4} = 1.25$$

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