

Name: Class:

Fraction of a group - word problems

1. Sophia baked 5 batches of cookies. The 4th and the 5th batch got burnt. What fraction of the batches of cookies got burnt?
2. A group of 25 students went on a field trip in a tea estate to study the process of tea cultivation. 7 students drank tea on their way back from the field trip. What fraction of students drank tea?
3. Mr. William is the CEO of a furniture's company. In order to motivate his employees for their hardwork, he took them out for lunch. They ordered 10 plates of salade. 2 of the employees demanded extra cream on their plates. What fraction of the plates of salade had extra cream?
4. Emily blends 15 cups of orange juice for her upcoming picnic with her friends. She put some juice colouring in 4 cups of the juice. What fraction of juice cups had juice colouring?
5. Yesterday, Charles came back from school and had pizza for lunch. Pizza is not really his favourite food, but since he didn't really have a choice, he took the pizza and divided it into 6 equal pieces. He then added cheese on 2 pieces and put it in the microwave to warm it up. What fraction of the pizza did he not add cheese on?
6. Ava's grandmother distributed all the candies she had equally to her grandchildren, Ava, Emma, and Samuel. Ava received 5 candies, Samuel received 7 candies, and Emma received 10 candies because she is the eldest. What fraction of the candies did Emma receive?

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1. Sophia baked **5 batches of cookies**. The **4th** and the **5th batch** got burnt. What fraction of the batches of cookies got burnt?

- ▶ Sophia baked : **5 batches of cookies** (the denominator is 5).
- ▶ The **4th** and the **5th batch**. Implying that : **2 batches got burnt**. (the numerator is 2).

2 out of 5 batches of cookies got burnt
Therefore, **2/5 batches of cookies got burnt**.

2. ▶ **7 out of 25 students** drank tea.

Therefore, a fraction of **7/25 students** drank tea.

3. ▶ **2 out of 10 plates** had extra cream.

Therefore, a fraction of **2/10 plates of salad** had extra cream.

4. ▶ **4 out of 15 cups** of orange juice had juice colouring.

Therefore, a fraction of **4/15 cups of orange juice** had juice colouring.

- ▶ Pieces of pizza he added cheese on = **2**.
- ▶ Total number of pieces he divided the pizza into = **6**
- ▶ Number of pieces he did not put pizza on = **6 - 2 = 4**.

So, he did not put cheese on **2/3 of the pizza**.

- ▶ Number of candies Ava received = **5**.
- ▶ Number of candies Samuel received = **7**
- ▶ Number of candies Emma received = **10**

So, Emma received **5/22 of the candies**.