

Making Lip Balm

Lesson 6-13

DATE

TIME

Lip balm protects your lips from chapping. It can be made at home with help from an adult. The ingredients below are for one batch. A batch fills 4 small tubes.



4 teaspoons beeswax

2 teaspoons shea butter

3 teaspoons almond oil

$\frac{1}{8}$ to 1 teaspoon flavoring oil



Solve. Use drawings, words, and equations to represent the problems.

- 1 Yasmeen made 2 batches of lemon lip balm. How many teaspoons of almond oil did she use?

6 teaspoons

Words: 2 groups of 3

Drawing: **Sample answer:**



Addition equation: 3 + 3 = 6

Multiplication equation: 2 * 3 = 6

- 2 Cinnamon flavoring oil is very strong, so only $\frac{1}{8}$ teaspoon is used for a batch of lip balm. How many teaspoons of cinnamon flavoring oil are needed for 5 batches?

$\frac{5}{8}$ teaspoon

Words: 5 groups of $\frac{1}{8}$

Drawing: **Sample answer:**



Addition equation:

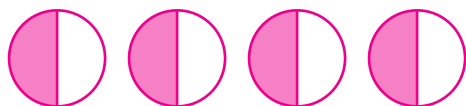
$$\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} = \frac{5}{8}$$

Multiplication equation: 5 * $\frac{1}{8}$ = $\frac{5}{8}$

- 3 Carter made 4 batches of marshmallow lip balm. He used $\frac{1}{2}$ teaspoon of marshmallow flavoring oil in each batch. How many teaspoons of marshmallow flavoring oil did he use in all?

2 teaspoons

Drawing: **Sample answer:**



Words: 4 groups of $\frac{1}{2}$

Addition equation:

$$\frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} = \frac{4}{2} = 2$$

Multiplication equation:

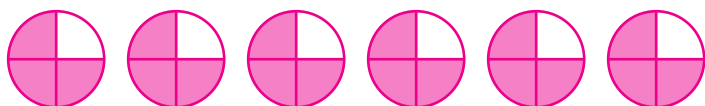
$$4 * \frac{1}{2} = \frac{4}{2} = 2$$

- 4 Julia made 24 tubes of cherry lip balm. She used $\frac{3}{4}$ teaspoon of cherry flavoring oil in each batch. In all, how much cherry flavoring oil did Julia use?

$4\frac{2}{4}$, or $4\frac{1}{2}$ teaspoons

Between which two whole numbers does your answer lie? 4 and 5

Drawing: **Sample answer:**



Words: 6 groups of $\frac{3}{4}$

Addition equation: $\frac{3}{4} + \frac{3}{4} + \frac{3}{4} + \frac{3}{4} + \frac{3}{4} + \frac{3}{4} = \frac{18}{4} = 4\frac{2}{4} = 4\frac{1}{2}$

Multiplication equation:

$$6 * \frac{3}{4} = \frac{18}{4} = 4\frac{1}{2}$$

Try This

- 5 Ezra wanted to try a new flavor combination for his lip balm. To make 1 batch, he combined $\frac{1}{8}$ teaspoon of peppermint oil, $\frac{3}{8}$ teaspoon of vanilla oil, and $\frac{1}{8}$ teaspoon of orange oil. How many teaspoons of flavoring oil will he need for 3 batches of his new flavor?

$\frac{15}{8}$, or $1\frac{7}{8}$ teaspoons

Show how you solved the problem. **Sample answer:** $\frac{1}{8} + \frac{3}{8} + \frac{1}{8} = \frac{5}{8}$, the amount of flavoring oil per batch; $\frac{5}{8} + \frac{5}{8} + \frac{5}{8} = \frac{15}{8}$, or $3 * \frac{5}{8} = \frac{15}{8}$, the amount of flavoring oil for 3 batches.