

Module 3 Application Problems

1. 15 kilograms of rice are separated equally into 4 containers.

How many kilograms of rice are in each container?
Express your answer as a decimal and as a fraction.

2. Mr. Hopkins has a 1 meter wire he is using to make clocks. Each fourth meter is marked off with 5 smaller equal lengths. If Mr. Hopkins bends the wire at $\frac{3}{4}$ meter, what fraction of the marks is that?

3. Alex squeezed 2 liters of juice for breakfast. He pours the juice equally into 5 glasses.

How many liters of juice will be in each glass?
(Bonus: How many milliliters are in each glass?)

4. Leslie has 1 liter of milk in her fridge to drink today. She drank $\frac{1}{2}$ liter of milk for breakfast and $\frac{2}{5}$ liter of milk for dinner.

How many liters did Leslie drink during breakfast and dinner?

(Bonus: How much milk does Leslie have left over to go with her dessert, a brownie? Give your answer as a fraction of liters and as a decimal.)

5. A farmer uses $\frac{3}{4}$ of his field to plant corn, $\frac{1}{6}$ of his field to plant beans, and the rest to plant wheat.

What fraction of his field is used for wheat?

6. The Napoli family combined two bags of dry cat food in a plastic container. One bag had $\frac{5}{6}$ kg. The other bag had $\frac{3}{4}$ kg.

What was the total weight of the container after the bags were combined?

7. No application problem for Lesson 7.
8. Jane found money in her pocket. She went to a convenience store and spent $\frac{1}{4}$ of her money on chocolate milk, $\frac{3}{5}$ of her money on a magazine, and the rest of her money on candy.

What fraction of her money did she spend on candy?

9. Hannah and her friend are training to run in a 2 mile race. On Monday, Hannah runs $\frac{1}{2}$ mile. On Tuesday, she runs $\frac{1}{5}$ mile further than she ran on Monday.
- How far did Hannah run on Tuesday?
 - If her friend ran $\frac{3}{4}$ mile on Tuesday, how many miles did the girls run in all on Tuesday?

10. To make punch for the class party, Mrs. Lui mixed $1\frac{1}{3}$ cups orange juice, $\frac{3}{4}$ cup apple juice, $\frac{2}{3}$ cup cranberry juice, and $\frac{3}{4}$ cup lemon-lime soda.

Mixed together, how many cups of punch does the recipe make?

(Bonus: Each student drinks 1 cup. How many recipes does Mrs. Lui need to serve her 20 students?)

11. Meredith went to the movies. She spent $\frac{2}{5}$ of her money on a ticket and $\frac{3}{7}$ of her money on popcorn.

How much of her money did she spend?
(Bonus: How much of her money is left?)

12. Max's reading assignment was to read $15\frac{1}{2}$ pages. After reading $4\frac{1}{3}$ pages, he took a break.

How many more pages does he need to read
to finish his assignment?

13. Mark jogged $3\frac{5}{7}$ km. His sister jogged $2\frac{4}{5}$ km.

How much farther did Mark jog than his sister?

14. For a large order, Mr. Magoo made $\frac{3}{8}$ kg of fudge in his bakery. He then got $\frac{1}{6}$ kg from his sister's bakery. He needs a total of $1\frac{1}{2}$ kg.

How much more fudge does he need to make?

During lunch, Charlie drinks $2\frac{3}{4}$ cup of milk. Allison drinks $\frac{3}{8}$ cup of milk. Carmen drinks $\frac{1}{6}$ cup of milk.

How much milk do the 3 students drink?

15. No application problem for Lesson 15.

16. Problem Set!