**Problem-Solving Cards**

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| **1**A planning committee at the botanical gardens will be creating a water pond with aquatic plants and animals. The pond will hold 28 liters of water. To fill the pond, they will use a $2\frac{1}{2}$ liter container. How many containers will be needed to fill the pond? | **2**At the county fair, $\frac{2}{5}$ of the games are arcade games. Among the arcade games, $\frac{1}{4}$ of them are sports related. What fraction of the games are sports-related arcade games? |
| **3**You are making a recipe that calls for $\frac{2}{3}$ cup of sugar. If you need to triple the recipe for a school function, how much sugar will be needed? | **4**Mr. Gracin went looking for a new car. He test drove a car for 12 miles and noticed he used $\frac{3}{4}$ of a gallon of gas. How many miles per gallon does the car get? |
| **5**One-fourth of the cookies on display had chocolate chips. Two-thirds of the cookies on display had nuts. What fraction of cookies on display had both chocolate chips and nuts? | **6**An interior designer was painting a room for a client. It took $1\frac{1}{2}$ quarts of paint to finish $\frac{1}{3}$ of the room. How many quarts of paint will it take to finish the entire room? |
| **7**Tryouts for the play were over. The director explained that twelve students were cast for the primary roles. She explained that was $\frac{2}{3}$ of the total number of students who tried out. How many students tried out all together? | **8**Leah had $\frac{2}{3}$ of a mini pizza. Leah gave $\frac{1}{4}$ of the pizza she had to her friend. What fraction of the whole pizza did Leah give to her friend? |

**Write the corresponding division expression AND the corresponding multiplication expression for each of the problems.**

**Problem-Solving Cards - KEY**

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| **1**A planning committee at the botanical gardens will be creating a water pond with aquatic plants and animals. The pond will hold 28 liters of water. To fill the pond, they will use a $2\frac{1}{2}$ liter container. How many containers will be needed to fill the pond?**28 ÷ 2**  **= \_\_\_ and \_\_\_ × 2**  **= 28** | **2**At the county fair, $\frac{2}{5}$ of the games are arcade games. Among the arcade games, $\frac{1}{4}$ of them are sports related. What fraction of the games are sports-related arcade games? **×**  **= \_\_\_ and \_\_\_ ÷**  **=**  |
| **3**You are making a recipe that calls for $\frac{2}{3}$ cup of sugar. If you need to triple the recipe for a school function, how much sugar will be needed? **× 3 = \_\_\_ and \_\_\_ ÷**  **= 3** | **4**Mr. Gracin went looking for a new car. He test drove a car for 12 miles and noticed he used $\frac{3}{4}$ of a gallon of gas. How many miles per gallon does the car get?**12 ÷**  **= \_\_\_ and \_\_\_ ×**  **= 12** |
| **5**One-fourth of the cookies on display had chocolate chips. Two-thirds of the cookies on display had nuts. What fraction of cookies on display had both chocolate chips and nuts? **×**  **= \_\_\_ and \_\_\_ ÷**  **=**  | **6**An interior designer was painting a room for a client. It took $1\frac{1}{2}$ quarts of paint to finish $\frac{1}{3}$ of the room. How many quarts of paint will it take to finish the entire room?**1**  **÷**  **= \_\_\_ and \_\_\_ ×**  **= 1**  |
| **7**Tryouts for the play were over. The director explained that twelve students were cast for the primary roles. She explained that was $\frac{2}{3}$ of the total number of students who tried out. How many students tried out all together?**12 ÷**  **= \_\_\_ and \_\_\_ ×**  **= 12** | **8**Leah had $\frac{2}{3}$ of a mini pizza. Leah gave $\frac{1}{4}$ of the pizza she had to her friend. What fraction of the whole pizza did Leah give to her friend? **×**  **= \_\_\_ and \_\_\_ ÷**  **=**  |