

Dividing Mixed Numbers by Fractions Word Problems

1. Jacob has $7\frac{3}{4}$ sets of building blocks. If each set contains $\frac{2}{5}$ of the total blocks, how many sets of blocks can he make?

Solve : ____

2. In a cooking competition, contestants have to divide a $4\frac{1}{2}$ pound turkey into $\frac{3}{8}$ pound servings. How many servings can be made from the turkey?

Solve : ____

3. A pet owner wants to distribute $5\frac{2}{3}$ bags of treats equally among $\frac{1}{6}$ of their pets. How many bags of treats will each pet receive?

Solve : ____

4. During a road trip, a car travels $9\frac{1}{2}$ hours and covers $\frac{3}{4}$ of the total distance. How long will it take to complete the entire trip?

Solve : ____

5. Emily has a rectangular garden bed that is $6\frac{1}{4}$ feet long. She plans to divide the garden into 5 equal sections. How long will each section be?

Solve : ____

6. A scientist has $8\frac{3}{5}$ liters of a solution. If each experiment requires $\frac{3}{10}$ liters of the solution, how many experiments can be conducted?

Solve : ____

7. A set of art supplies contains $10\frac{2}{3}$ paintbrushes. If each student needs $\frac{1}{4}$ of a paintbrush, how many students can use the art supplies?

Solve : ____

8. A musician practices for $5\frac{3}{4}$ hours a day. If she wants to practice for $\frac{2}{3}$ of the available time, how many hours will she practice?

Solve : ____

9. A library has $12\frac{1}{2}$ books to distribute among $\frac{2}{5}$ of its branches. How many books will each branch receive?

Solve : ____

10. A construction worker can lay $8\frac{1}{4}$ feet of foundation in $\frac{1}{3}$ of an hour. How many feet of foundation can be laid in one hour?

Solve : ____

11. A runner completes $10\frac{1}{2}$ miles of a marathon route. If she has $\frac{1}{8}$ of the race left, how long is the entire marathon route?

Solve : ____

12. A group of friends orders a $16\frac{1}{2}$ inch pizza. If each person wants to eat $\frac{1}{3}$ of the pizza, how many people can be served?

Solve : ____