Fraction word problems

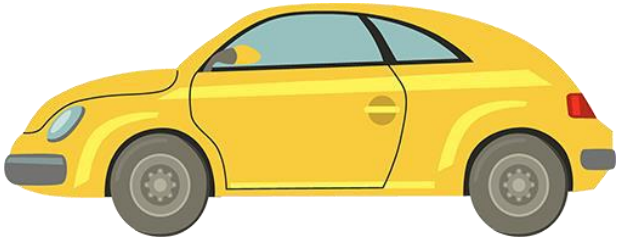
Grade 5 Word Problems Worksheet

Teacher Jonna is excited to welcome her students today.

1. Teacher Jonna received $8\frac{1}{2}$ reams of paper from the school administration for this school year. She still has $1\frac{5}{8}$ reams of paper left from last year. Yesterday, she used $2\frac{3}{4}$ reams of paper to make copies of a science activity for her students. How many reams of paper does she have left?

2. Six classes participated in the Science Club's campaign to fund a school project to plant trees around the school. They sold $40\frac{2}{3}$ kgs of plastic bottles and $52\frac{2}{5}$ kgs of white paper to the recycling depot. How many kilograms of items did they collect in all?

3. On Monday, teacher Jonna drove $1\frac{1}{4}$ km from her home. She stopped at the gasoline station and then she continued to drive another $2\frac{3}{5}$ km to school. After 8 hours of working, she took the alternate route from school to her house which is $4\frac{1}{10}$ km. What is the distance from her house to the school using the first route? How many kilometers did she drive altogether on that day?



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4. A recipe calls for mixing $2\frac{1}{5}$ L of orange juice, $3\frac{1}{2}$ L of pineapple juice, $2\frac{1}{4}$ L of apple juice and the rest is water to make $10\frac{3}{4}$ L of their best-selling blended fruit juice. How many liters of water must be added?

5. There were $12\frac{1}{2}$ boxes of plastic bottles`of water and $3\frac{2}{3}$ boxes of plastic bottled soft drinks at the drinks stall. Rey supplied his 2 regular customers with $5\frac{5}{6}$ boxes of mineral water bottles from the drink stall. How many boxes of bottled drinks were left the stall?

6. Rey usually works $6\frac{5}{7}$ hours selling drinks, and the rest of his shift he does inventory and cleans the stall before closing. If he works in the drink stall for a total of $7\frac{1}{2}$ hours, how much time does he spend on inventory and cleaning?

Answers

1. $8\frac{1}{2} + 1\frac{5}{8} - 2\frac{3}{4} = 7\frac{3}{8}$
   She still has $7\frac{3}{8}$ reams of paper left.

2. $40\frac{2}{3} + 52\frac{2}{5} = 93\frac{1}{15}$
   They collected $93\frac{1}{15}$ kilograms of items.

3. $1\frac{1}{4} + 2\frac{3}{5} = 3\frac{17}{20}$
   The distance from her house to school using the first route is $3\frac{17}{20}$ km.
   $3\frac{17}{20} + 4\frac{1}{10} = 8\frac{1}{20}$
   She drove $7\frac{19}{20}$ km that day.

4. $12\frac{1}{3} + 15\frac{3}{4} + 2\frac{1}{2} = 30\frac{7}{12}$
   Harry finished the activity in $30\frac{7}{12}$ minutes.
   $35\frac{1}{2} - 30\frac{7}{12} = 4\frac{11}{12}$
   He has $4\frac{11}{12}$ minutes of free time.

5. $13\frac{1}{3} + 12\frac{3}{4} - 14\frac{5}{6} = 11\frac{1}{4}$
   He has $11\frac{1}{4}$ ml of gray paint left.

6. $2\frac{7}{10} - 1\frac{1}{3} = 1\frac{11}{30}$
   The teachers' meeting was scheduled for $1\frac{11}{30}$ hours or 11 hours and 22 minutes.