Multi-Step Word Problems

Grade 5 • MATH • Solving multi-step word problems with decimals and fractions using all four operations • Standards: 5.NBT.B.7, 5.NF.A.2

Read each problem carefully, plan which operations you need, and show all steps in your work. Remember to check that your answer makes sense!

1. Maya bought 3 notebooks for $2.50 each. She paid with a $10 bill. How much change did she receive?

2. A baker made 24 muffins. She sold 3/4 of them in the morning. How many muffins did she sell?

3. Carlos ran 2.8 miles on Monday and 3.5 miles on Tuesday. He wants to run 10 miles total this week. How many more miles does he need to run?

4. A recipe calls for 2/3 cup of sugar. Emma wants to make 4 batches of the recipe. How many cups of sugar does she need in all?

5. Mr. Johnson bought 5 pizzas for $8.75 each. He also bought drinks for $12.50. What was the total cost of his purchase?

6. A garden has 48 plants arranged in equal rows. If 1/6 of the plants are tomatoes and the rest are peppers, how many pepper plants are there?

7. Sofia saved $45.60 over 6 weeks by saving the same amount each week. Then she spent $18.25 on a gift. How much money does she have left?

8. A store sells apples for $1.20 per pound. Kevin bought 3.5 pounds of apples and paid with a $5 bill. How much change should he receive?

9. Lila had 5/8 of a pizza left. She ate 1/4 of the whole pizza for lunch. What fraction of the whole pizza does she have now?

10. A warehouse has 240 boxes. Workers shipped out 3/5 of the boxes in the morning. In the afternoon, they shipped out 42 more boxes. How many boxes remain

in the warehouse?

Answer Key — Multi-Step Word Problems

For the teacher / parent. Do not distribute with the worksheet.

1. $2.50 *(3 × $2.50 = $7.50, then $10.00 - $7.50 = $2.50)*

2. 18 muffins *(24 × 3/4 = 72/4 = 18)*

3. 3.7 miles *(2.8 + 3.5 = 6.3, then 10 - 6.3 = 3.7)*

4. 2 2/3 cups or 8/3 cups *(2/3 × 4 = 8/3 = 2 2/3)*

5. $56.25 *(5 × $8.75 = $43.75, then $43.75 + $12.50 = $56.25)*

6. 40 pepper plants *(48 × 1/6 = 8 tomatoes, then 48 - 8 = 40 peppers)*

7. $27.35 *($45.60 - $18.25 = $27.35 (the 6 weeks is extra information))*

8. $0.80 *(3.5 × $1.20 = $4.20, then $5.00 - $4.20 = $0.80)*

9. 3/8 of the pizza *(1/4 = 2/8, then 5/8 - 2/8 = 3/8)*

10. 54 boxes *(240 × 3/5 = 144 shipped in morning, then 144 + 42 = 186 total shipped, then 240 - 186 = 54 remain)*