

Name: ..... Class: .....

## Multiply Mixed Numbers: Word Problems

- a. Today, James walk  $4\frac{1}{2}$  km. Tomorrow she plans to walk  $2\frac{1}{4}$  times as far as yesterday. How many km does she plan to walk tomorrow? (Write your answer as a mixed number).
- b. Jorelle has a very big farm. Last week his workers planted  $7\frac{1}{2}$  buckets of corn. They intend to plant  $3\frac{3}{4}$  times as much as last week. How many buckets of corn do they intend to plant this week? (Write your answer as a mixed number).
- c. Yesterday, Grace left  $5\frac{3}{4}$  shawarma in the fridge. Her daughter, Lucy, ate  $\frac{1}{2}$  of the shawarma. How much shawarma did she eat?
- d. Charles usually drives  $1\frac{1}{2}$  miles per minute. To get to his in laws place, he takes 30 minutes. How far is his in laws house?
- e. A recipe calls for  $6\frac{3}{5}$  cups of flour. Out of these cups of flour, Barbra only used  $\frac{1}{3}$  of it. How much flour did she use?
- f. Abigail picked  $11\frac{1}{2}$  kilograms of apples from her father's orchard. She gave her younger sister  $\frac{3}{4}$  kilograms of this apples. How many kilograms did she give her sister?
- g. Joan needs  $3\frac{1}{4}$  cups of flour to bake a dozen- batch of cookies for a bakery. If she made 9 dozen- batch of cookies, how much flour did she use?
- h. A farmer has  $25\frac{1}{2}$  acres of land. If he uses  $\frac{1}{3}$  of it to plant corn, how many acres of land did he use to plant corn?
- i. Amora walked  $5\frac{1}{2}$  kilometres and Gina walked  $2\frac{1}{2}$  times as far as Amora. How many kilometres did Gina walk?
- j. A bag of rice weighs  $3\frac{2}{9}$  pounds. If Miss Julia buys  $10\frac{1}{2}$  bags. What is the weight of all the bags?

Name: ..... Class: .....

Multiply Mixed Numbers: Word Problems

**a.** Today, James walk  $4\frac{1}{2}$  km. Tomorrow she plans to walk  $2\frac{1}{4}$  times as far as yesterday. How many km does she plan to walk tomorrow?  
Write your answer as a mixed number.

Tracy plans to walk  $2\frac{1}{4}$  times  $4\frac{1}{2}$  km.

Convert your answer into a mixed number.

$$\begin{aligned}
 2\frac{1}{4} \times 4\frac{1}{2} &= \frac{(2 \times 4) + 1}{4} \times \frac{(4 \times 2) + 1}{2} \\
 &= \frac{9}{4} \times \frac{9}{2} \\
 &= \frac{9 \times 9}{4 \times 2} \\
 &= \frac{81}{8}
 \end{aligned}$$

$$\begin{aligned}
 &= \frac{81}{8} = 8 \overline{)81} \\
 &\quad - 8 \downarrow \\
 &\quad \quad \underline{01} \\
 &\quad \quad \quad \underline{0} \\
 &\quad \quad \quad \quad 1 \\
 &= 10 \text{ R } 1 \\
 &= 10\frac{1}{8}
 \end{aligned}$$

Therefore, James plans to walk  $10\frac{1}{8}$  km tomorrow.

- b.** So, they intend to plant  $28\frac{1}{8}$  buckets of corn this week.
- c.** So, she ate  $2\frac{7}{8}$  out of the  $5\frac{3}{4}$  shawarma that Lucy left in the fridge.
- d.** So, his in laws house is 45 miles far.
- e.** So, she used  $2\frac{1}{5}$  cups of flour out of the  $6\frac{3}{5}$  cups of flour that the recipe calls for.
- f.** So, she gave her sister  $8\frac{3}{8}$  kilograms of apples out of the  $11\frac{1}{2}$  kilograms of apples that she picked.
- g.** So, she used  $47\frac{1}{4}$  cups of flour to bake 9 dozen-batch of cookies.
- h.** So, he used  $8\frac{1}{2}$  acres of land out of the  $25\frac{1}{2}$  acres of land he has to plant corn.
- i.** So, Gina walked  $13\frac{3}{4}$  kilometres.
- j.** So, the bags weigh  $33\frac{5}{6}$  pounds in all.