Name: ....   Class: ....
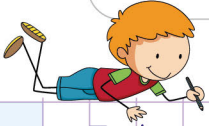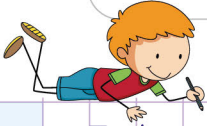
Multiply Mixed Numbers: Word Problems

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)

mathskills4kids

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.

$$2\frac{1}{4} \times 4\frac{1}{2} = \frac{(2\times4)+1}{4} \times \frac{(4\times2)+1}{2}$$

$$= \frac{9}{4} \times \frac{9}{2}$$

$$= \frac{9\times9}{4\times2}$$

$$= \frac{81}{8}$$

Convert your answer in to a mixed number

$$= \frac{81}{8} = 8$$

$$\begin{array}{r} 10 \\ 8\overline{)81} \\ -\underline{8}\downarrow \\ 01 \\ \underline{0} \\ 1 \end{array} = 10R1$$

$$= 10\frac{1}{8}$$

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

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.

$$3\frac{3}{4} \times 7\frac{1}{2} = \frac{(3\times4)+3}{4} \times \frac{(7\times2)+1}{2}$$

$$= \frac{15}{4} \times \frac{15}{2}$$

$$= \frac{225}{8}$$

$$\frac{225}{8} = \begin{array}{r} 28 \\ 8\overline{)225} \\ -\underline{16}\downarrow \\ 65 \\ -\underline{64} \\ 1 \end{array} = 28R1$$

$$= 28\frac{1}{8}$$

so, they intend to plant $28\frac{1}{8}$ buckets of corn this week.