Name _____   Date _____

Find the area of the following rectangles. Draw an area model if it helps you.

1. $\frac{7}{2}$ mm $\times \frac{14}{5}$ mm

2. $5\frac{7}{8}$ km $\times \frac{18}{4}$ km

$$\frac{7}{2} \times \frac{14}{5} = \frac{98}{10} = 9\frac{8}{10} \text{ mm}^2$$

$$= 9\frac{4}{5} \text{ mm}^2$$

$$= \frac{47}{8} \times \frac{18}{4}$$

$$= \frac{846}{32}$$

$$= 26\frac{14}{32}$$

$$= 26\frac{7}{16} \text{ km}^2$$

$$\begin{array}{r} 26 \\ 32\overline{\smash{)}846} \\ \underline{64} \\ 206 \\ \underline{-192} \\ 14 \end{array}$$

It is not required that students reduce the answer to simplest terms. Ex: Both $9\frac{8}{10}$ and $9\frac{4}{5}$ should receive full credit.

EUREKA MATH™   **Lesson 13:**   Multiply mixed number factors, and relate to the distributive property and the area model.   **186**

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