5th Grade /Module 5-Lesson 13/Mrs. Faour

Objective: Multiply mixed number factors, and relate to the distributive property and the area model.

Problem –Set page/Watch Video

Fluency Practice /Watch Video

Application Problem/Watch Video

Lesson Requirements:

* Class Note/use your math notebook
* Homework page/Submit
* Exit Ticket page/Submit



Name Date

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

|  |  |
| --- | --- |
| 1. $\frac{5}{4}$ km ×$ \frac{12}{5} $km
 | 1. $16\frac{1}{2} $m × $4\frac{1}{5}$ m
 |
| 1. $4\frac{1}{3}$ yd × $5\frac{2}{3}$ yd
 | 1. $\frac{7}{8}$ mi × $4\frac{1}{3}$ mi
 |

1. Julie is cutting rectangles out of fabric to make a quilt. If the rectangles are $2\frac{3}{5}$ inches wide and $3\frac{2}{3}$ inches long, what is the area of four such rectangles?
2. Mr. Howard’s pool is connected to his pool house by a sidewalk as shown. He wants to buy sod for the lawn, shown in gray. How much sod does he need to buy?

3 yd

1 yd

$ 2\frac{1}{2} $yd

$7\frac{1}{2} $yd

 Pool

Pool house 16 yd2

$24\frac{1}{2}$ yd

$24\frac{1}{2}$ yd

Name Date

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

1. $\frac{7}{2} $mm × $\frac{14}{5}$ mm 2. $5\frac{7}{8} $km × $\frac{18}{4}$ km

Name Date

1. Find the area of the following rectangles. Draw an area model if it helps you.(optional)

|  |  |
| --- | --- |
| 1. $\frac{8}{3}$ cm × $\frac{24}{4} $cm
 | 1. $\frac{32}{5} $ft × $3\frac{3}{8}$ ft
 |
| 1. $5\frac{4}{6}$ in × $4\frac{3}{5}$ in
 | 1. $\frac{5}{7}$ m × $6\frac{3}{5}$ m
 |

1. Chris is making a tabletop from some leftover tiles. He has 9 tiles that measure $3\frac{1}{8}$ inches long and $2\frac{3}{4}$ inches wide. What is the greatest area he can cover with these tiles?
2. A hotel is recarpeting a section of the lobby. Carpet covers the part of the floor as shown below in gray. How many square feet of carpeting will be needed?

$19\frac{1}{2}$ ft

$13\frac{3}{5}$ ft

$ 11\frac{3}{4}$ ft

 $3\frac{3}{4}$ ft

12 ft

17 ft

$ 2\frac{1}{2}$ ft

$31\frac{7}{8}$ ft