Name _____   Date _____

Rectangles with Fractional Sides - Guided Lesson Explanation

Explanation#1

Area of a rectangle: Area = base × height

Find the base and height of the rectangle.

Base: 5 3/5

Height: 2 4/6

Use the number in the formula.

Area = base × height

$$= \quad 5\frac{3}{5} \times 2\frac{4}{6}$$

$$= \quad 14\frac{14}{15}$$

Find units that are used. The lengths are measured in centimeters, so the area is measured in square centimeters.

The area is $14\frac{14}{15}$ square centimeters.

Explanation#2

6 out of 7 rows **are shaded in red**. This row represents the fraction 6/7.

5 out of 6 columns **are shaded blue**.

This column represents the fraction 5/6.

30 out of 42 sections are shaded in both colors.

The product is $\frac{30}{42}$

The multiplication sentence is:

$$\frac{6}{7} \times \frac{5}{6} = \frac{30}{42}$$

The missing number is 6.

Explanation#3

Area of a rectangle: Area = base × height

Find the base and height of the rectangle.

Base: 6 3/8

Height: 4 2/7

Use the number in the formula.

Area = base × height

$$= \quad 6\frac{3}{8} \times 4\frac{2}{7}$$

$$= \quad 27\frac{9}{28}$$

The lengths are measured in centimeters, so the area is measured in square centimeters.

The area is $27\frac{9}{28}$ square centimeters.