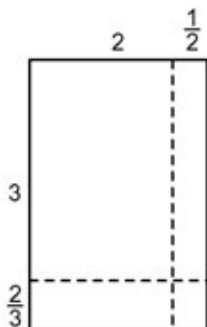


Section 6.4 Extra Practice

1. The diagram below models $2\frac{1}{2} \times 3\frac{2}{3}$. Use the diagram to complete the questions.



- a) Fill in the blanks to find the partial areas. Label the area of each of the regions in the diagram as you calculate it below.

Partial Areas:

$$2 \times 3 = 6$$

$$\underline{\hspace{2cm}} \times \frac{2}{3} = \underline{\hspace{2cm}}$$

$$\underline{\hspace{2cm}} \times \frac{1}{2} = \underline{\hspace{2cm}}$$

$$\frac{2}{3} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

- b) Add the areas: $6 + \underline{\hspace{1cm}} + \underline{\hspace{1cm}} + \underline{\hspace{1cm}} + \underline{\hspace{1cm}} = \underline{\hspace{2cm}}$

- c) Estimate the product: $\underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

- d) Write the mixed numbers as improper fractions and multiply:

$$2\frac{1}{2} = \frac{\square}{\square}, 3\frac{2}{3} = \frac{\square}{\square}, \frac{\square}{\square} \times \frac{\square}{\square} = \frac{\square}{\square}$$

Express the answer in lowest terms. _____

2. Show the improper fractions as mixed numbers. Write the fraction in lowest terms. The first line is partially completed.

a) $\frac{15}{4} = \frac{4}{4} + \frac{4}{4} + \frac{4}{4} + \frac{\square}{\square} = \underline{\hspace{2cm}}$

b) $\frac{9}{2} = \underline{\hspace{2cm}}$

c) $\frac{26}{12} = \underline{\hspace{2cm}}$

d) $\frac{20}{6} = \underline{\hspace{2cm}}$

Name: _____

Date: _____

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(continued)

3. Complete the table.

	Multiplication of Mixed Numbers	Multiplication of Improper Fractions	Product Expressed as Improper Fraction	Product Expressed as Mixed Number
Example	$1\frac{2}{3} \times 2\frac{1}{4}$	$\frac{5}{3} \times \frac{9}{4}$	$\frac{45}{12}$	$3\frac{9}{12} = 3\frac{3}{4}$
a)	$1\frac{1}{3} \times 1\frac{1}{3}$			
b)	$2\frac{1}{3} \times 1\frac{1}{2}$			
c)	$1\frac{3}{4} \times 1\frac{2}{5}$			
d)	$1\frac{5}{6} \times 2\frac{1}{2}$			

4. Jasmine worked $3\frac{1}{4}$ h a day for five days. How many hours did Jasmine work altogether? Show your work.