12

Name _____ Date _____

1. Circle the area models that can be used to find $4 \times 8\frac{2}{3}$.
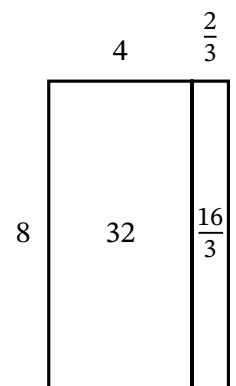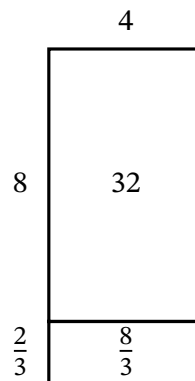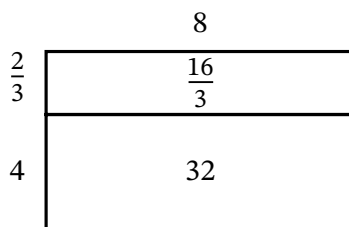
2. Write the multiplication expression that the area model represents.
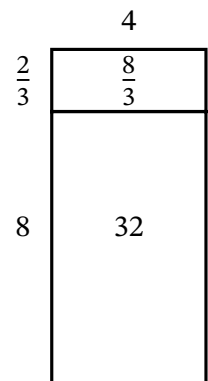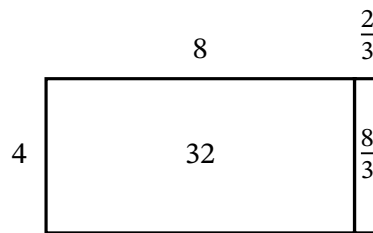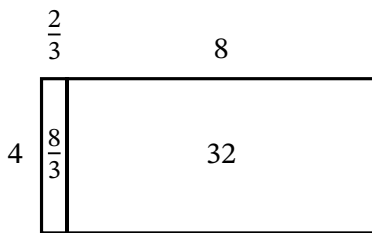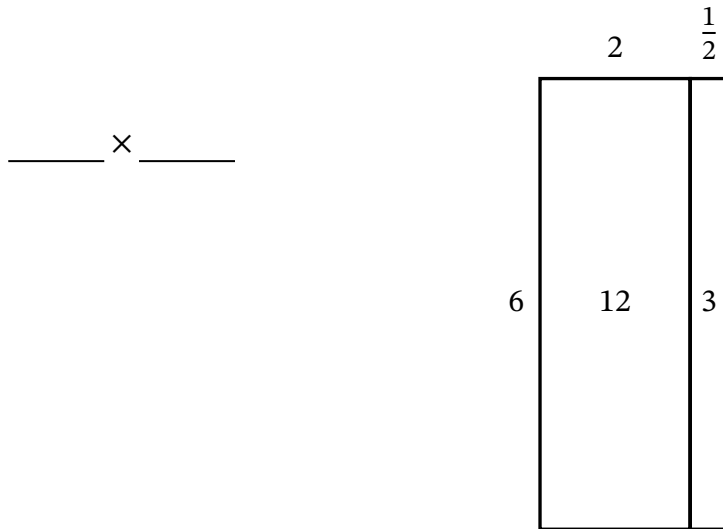
$$\text{\_\_\_\_\_} \times \text{\_\_\_\_\_}$$

	2	$\frac{1}{2}$
6	12	3

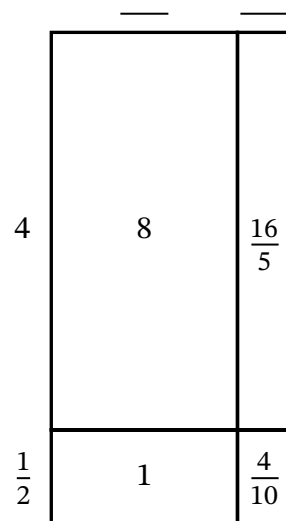Multiply.

3. $3\frac{1}{4} \times 8 =$ _____

4. $5\frac{2}{5} \times 4 =$ _____

5. Consider the multiplication expression $4\frac{1}{2} \times 2\frac{4}{5}$.

   a. Fill in the blanks in the area model.

   b. Fill in the blanks to show the sum of the partial products.

   $$\underline{\hspace{2cm}} + 1 + \frac{16}{5} + \underline{\hspace{2cm}}$$

   c. The product of $4\frac{1}{2}$ and $2\frac{4}{5}$ is $\underline{\hspace{1.5cm}}$.

		$\underline{\hspace{0.5cm}}$	$\underline{\hspace{0.5cm}}$
4		8	$\frac{16}{5}$
$\frac{1}{2}$		1	$\frac{4}{10}$

6. The area models shown both represent $3\frac{1}{3} \times 6\frac{2}{3}$. The side lengths of the first area model are labeled with mixed numbers. The side lengths of the second area model are labeled with fractions greater than 1. Use both area models to determine $3\frac{1}{3} \times 6\frac{2}{3}$.

$6\frac{2}{3}$ $\frac{20}{3}$

$3\frac{1}{3}$ $\frac{10}{3}$
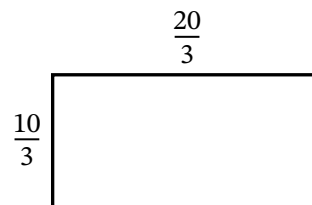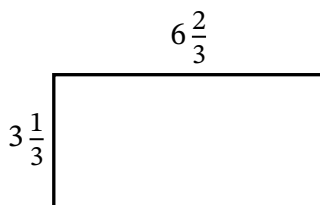
Multiply by using a method of your choice.

7. $2\frac{1}{4} \times 5\frac{4}{5} =$ _____

8. $6\frac{1}{2} \times 3\frac{3}{4} =$ _____