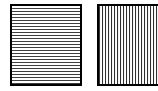**Using Area Models For**
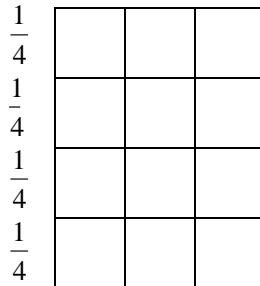**Multiplying and Dividing Fractions**

Name _____

Decide if the answer will be **> or <** the original number. Estimate the answer. Then, shade the rectangle(s) to show each problem, and use mathematics to show the algorithms for multiplying and dividing.
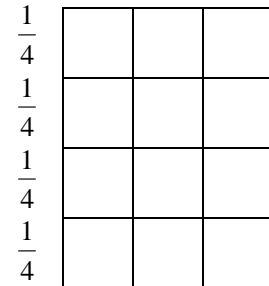
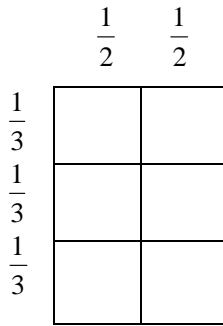1a. $\dfrac{1}{4}$ x 3

How much is ____
added ____ times?

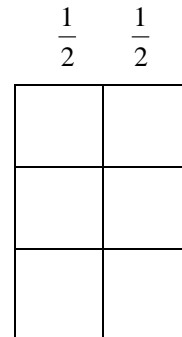1b. $\dfrac{3}{4} \div \dfrac{1}{4}$

How many ____
in ____?)

2a. $\dfrac{1}{2}$ x $\dfrac{1}{3}$

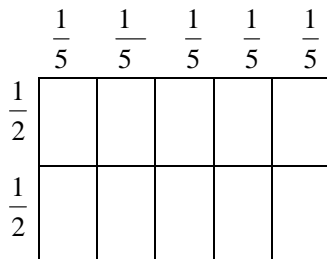How much is ____
added ____ time?

2b. $\dfrac{1}{6} \div \dfrac{1}{2}$
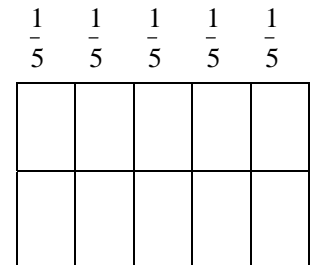
How many ____
in ____?

3a. $\dfrac{2}{5}$ x $\dfrac{1}{2}$
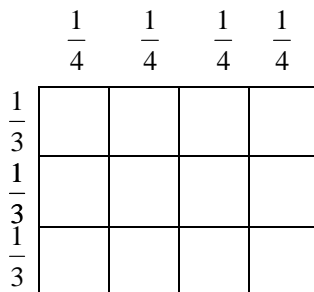
How much is ____
added ____ time?

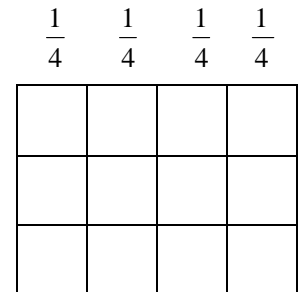3b. $\dfrac{1}{5} \div \dfrac{2}{5}$

How many ____
in ____?

4. $\dfrac{2}{3}$ x $\dfrac{3}{4}$

How much is ____
added ____ time?

5. $\dfrac{1}{2} \div \dfrac{1}{4}$

How many ____
in ____?

Make up three problems of your own on the back of this page.