## Topic B Quiz Prep (Lessons 7-11)

## Item 1: Area Model Representing 1 Whole

Consider the area model shown. The diagram represents 1.
Complete the equation to represent the area model.

Second, look at the number of rows with shaded boxes. We see one row that is shaded out of three. So, 1/3 is what we are taking of $3 / 5$.


First, look at the number of columns with shaded boxes. We see three columns that are shaded out of five. So, $3 / 5$ is what we are starting with.

## Item 2: Multiply

## $\frac{1}{6} \times \frac{4}{5}=\frac{4}{30}$

$$
\frac{3}{10} \times \frac{5}{7}=\frac{15}{70}
$$

$\frac{8}{5} \times \frac{3}{4}=\frac{24}{20}$

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Item 3 \& 4: Write >, $=$,


Item 5: Greater Than / Less Than

KNOW THE
RULES:

REMEMBER the three RULES:

1. If you multiply a number by a fraction LESS THAN ONE, the product will be LESS THAN the original number.
2. If you multiply a number by a fraction EQUAL TO ONE, the product will be EXACTLY EQUAL to the original number.
3. If you multiply a number by a fraction GREATER THAN ONE, the product will be GREATER THAN the original number.

$$
\frac{8}{6} \times \frac{4}{5}>\frac{4}{5}
$$

5. Consider the expression shown.

$$
\frac{4}{9} \times \frac{7}{6}
$$

Circle an answer choice in each box to make the statement true.
The product of $\frac{4}{9}$ and $\frac{7}{6}$ is (A) $\frac{7}{6}$ because $\frac{4}{9}$ is (B) 1 .

A


B greater than
less than

## Topic B Quiz Prep (Lessons 7-11)

## Item 6: Area Model Representing 1 Whole

Consider the area model shown. The diagram represents 1.
Shade in the area model correctly.

$$
2 \times \begin{aligned}
& \text { Lastly, do the math } \\
& \text { and check to see if } \\
& \text { the correct total } \\
& \text { boxes is shaded. In } \\
& \text { this case, 8 boxes are } \\
& \text { shaded out of } 15 .
\end{aligned}
$$

## Be able to explain what you did:

The model is portioned into 15 equal parts.

8 of the parts are shaded.

The model shows 8/15.

Second, shade the fraction 2/3 going up. In this case, we are looking at $2 / 3$ and shading 2 of 3 rows going up.

First, shade the first row based on the fraction that you see in the expression. In this case, we are looking at $4 / 5$ and shading 4 of the 5 boxes on the first row.

