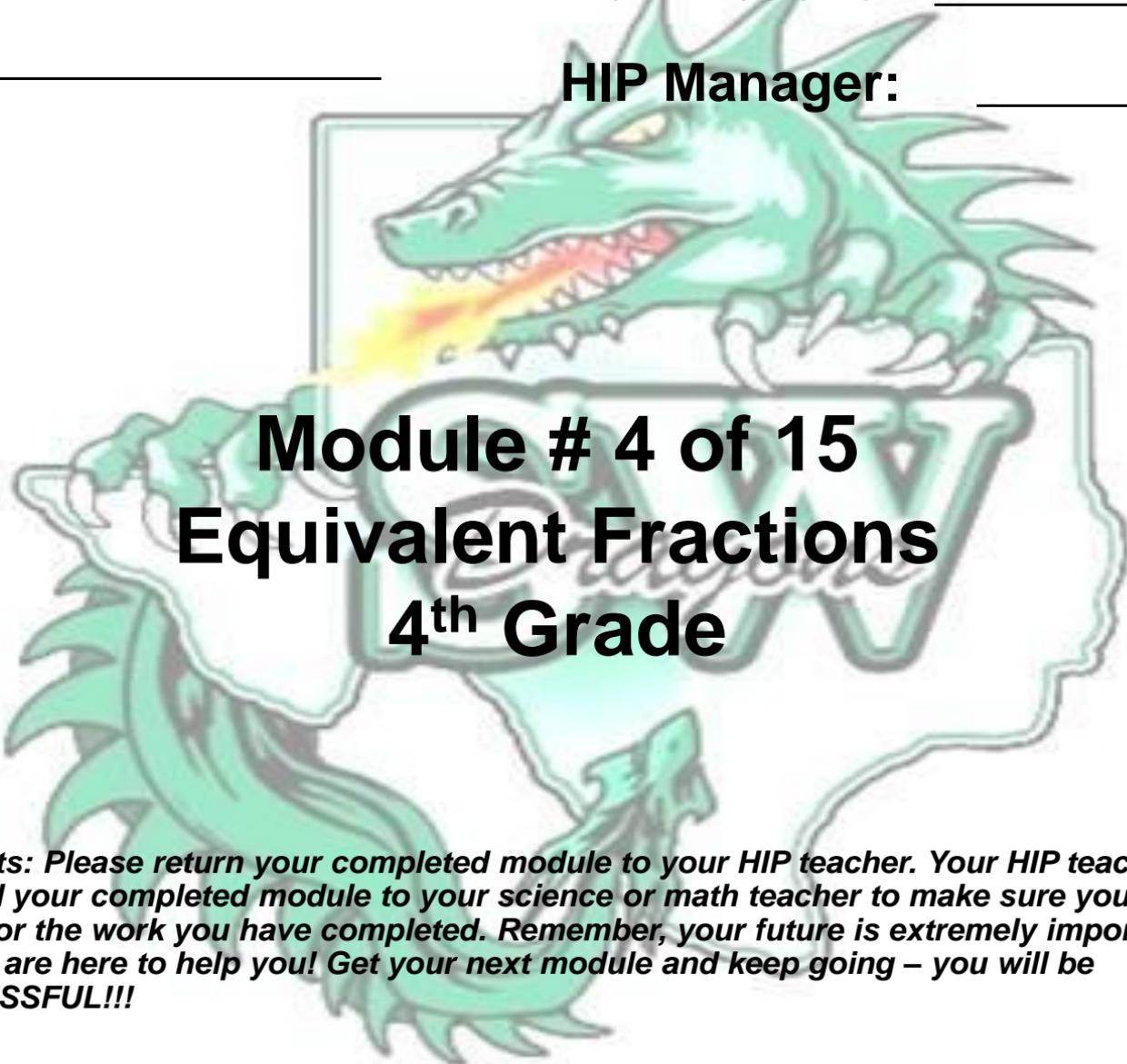


**Student
Name:** _____

Math Teacher: _____

HIP Manager: _____



Module # 4 of 15
Equivalent Fractions
4th Grade

Students: Please return your completed module to your HIP teacher. Your HIP teacher will forward your completed module to your science or math teacher to make sure you receive credit for the work you have completed. Remember, your future is extremely important to us and we are here to help you! Get your next module and keep going – you will be SUCCESSFUL!!!

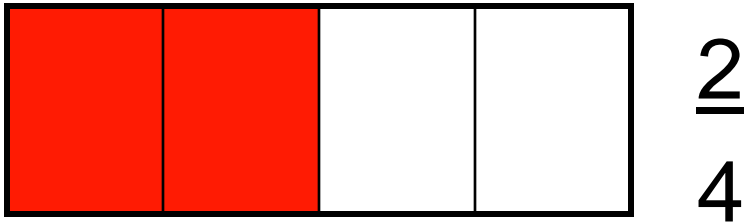


**DR. DRAGONOSKY'S MAD MATH
LAB PRESENTS
“EQUIVALENT FRACTIONS”**

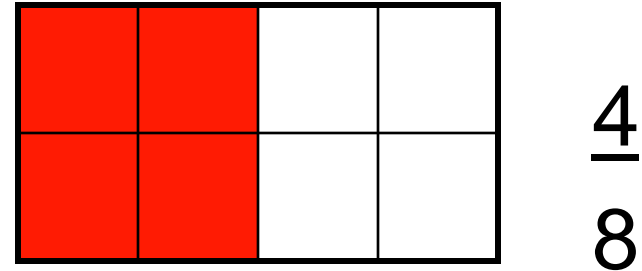
EQUIVALENT FRACTIONS

Fractions that name the same amount (part) of the whole are called equivalent (**equal**) fractions. The fractions may appear to be different but actually name **equal** parts.

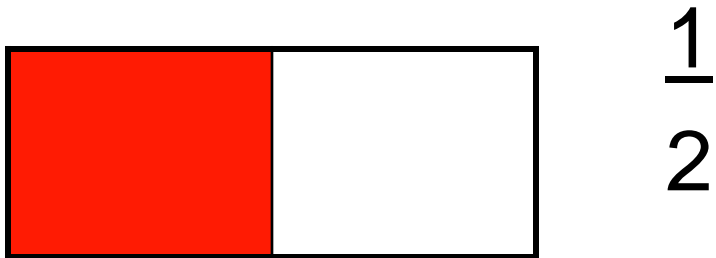
LET'S REVIEW FRACTIONS!!!



2 shaded parts out of 4 equal parts



4 shaded parts out of 8 equal parts



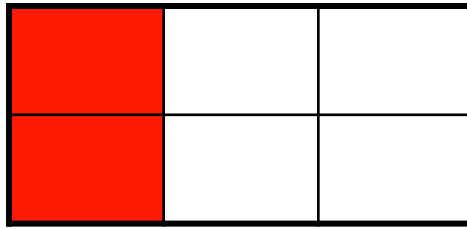
1 shaded part out of 2 equal parts




3 shaded parts out of 6 equal parts



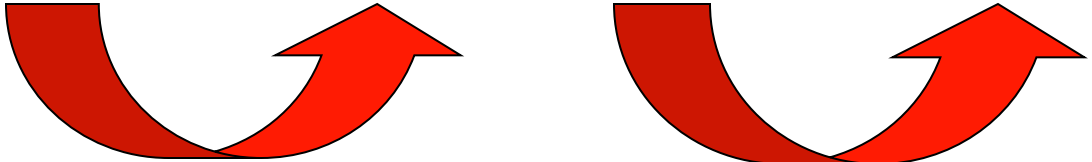
**TIME TO OBSERVE
AND LEARN!!!**



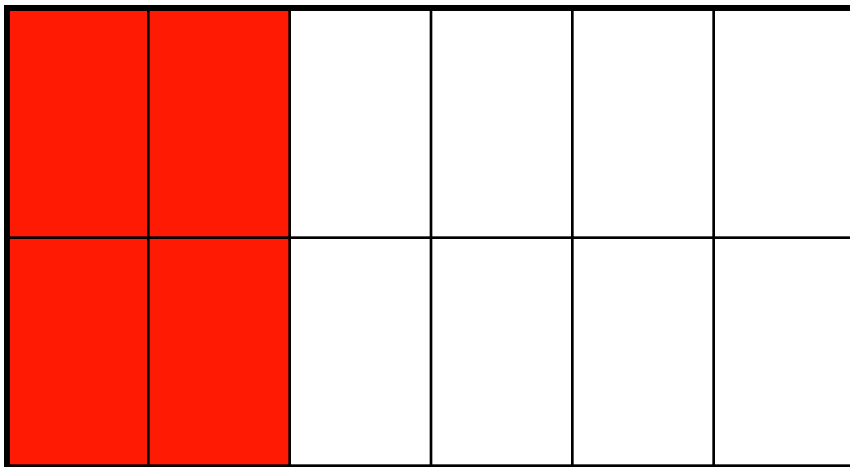
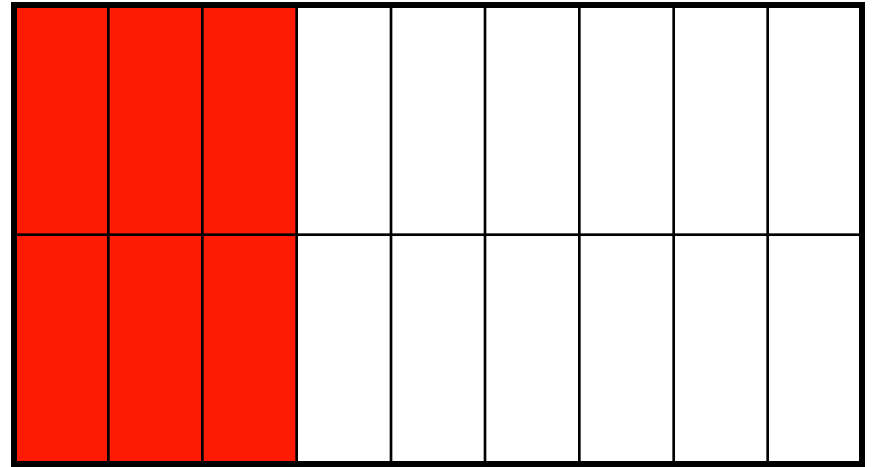
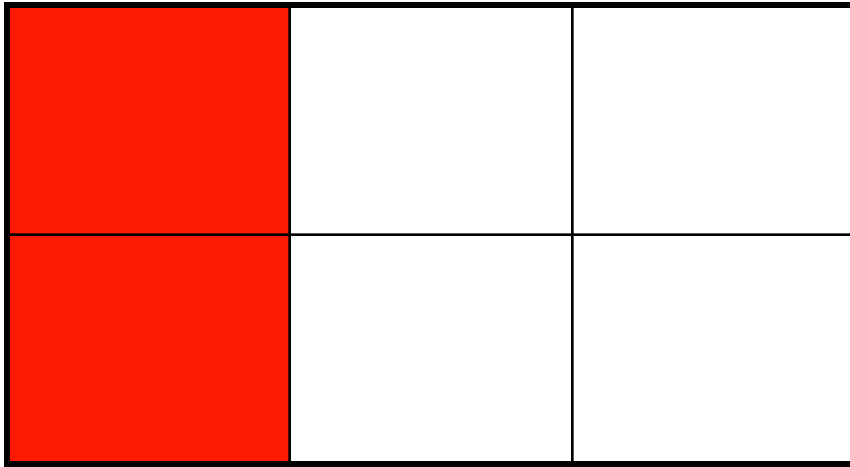
- The model shows 2 shaded parts out of 6 equal parts.
- To form an **equivalent** fraction, multiply the numerator (top number) and the denominator (bottom number) by the same number.

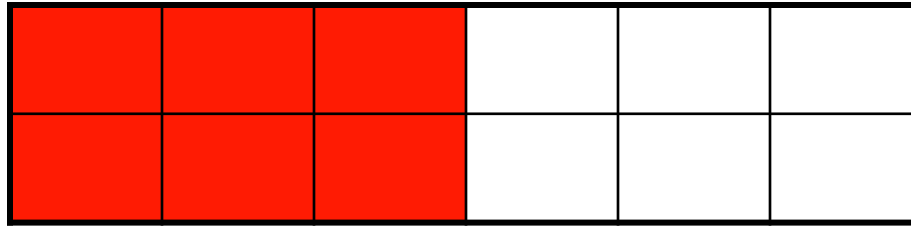
Example: $\frac{2}{6} \times 2 = \frac{4}{12}$  $\frac{2}{6} = \frac{4}{12}$

More examples: $\frac{2}{6} \times 3 = \frac{6}{18}$ $\frac{2}{6} = \frac{6}{18}$ $\frac{2}{6} \times 4 = \frac{8}{24}$ $\frac{2}{6} = \frac{8}{24}$




ALL EQUIVALENT!!!

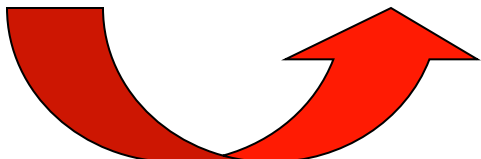
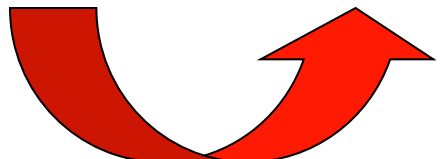




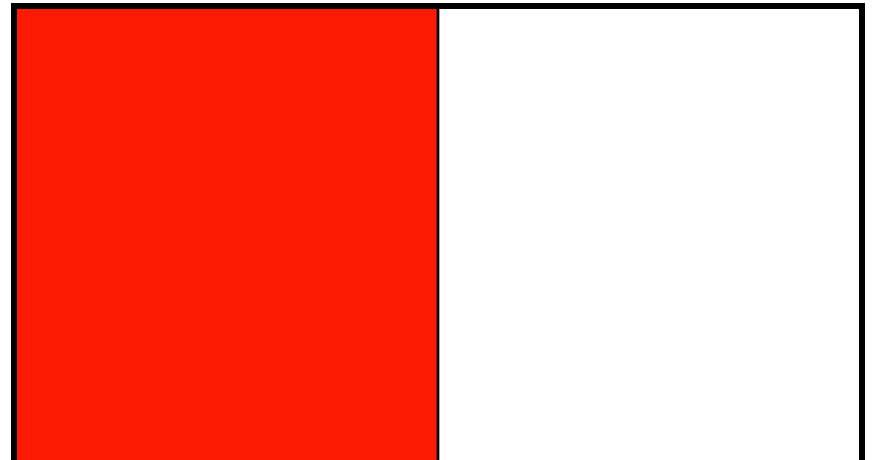
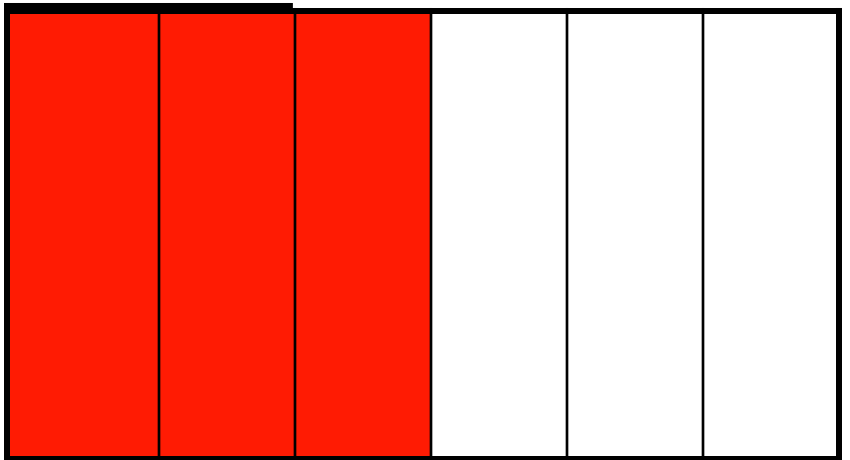
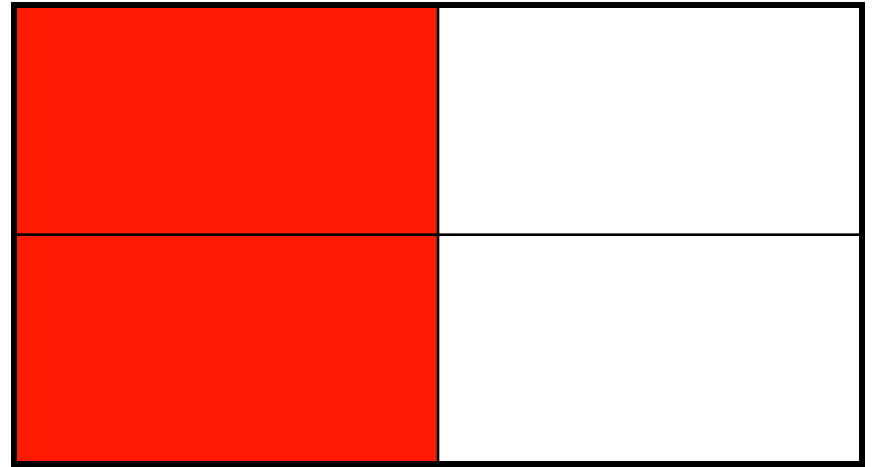
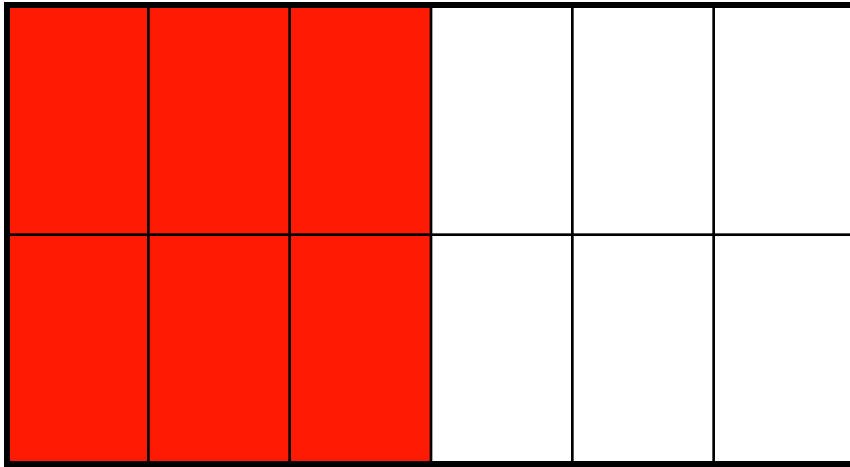
- The model shows 6 shaded parts out of 12 equal parts.
- To form an **equivalent** fraction, divide the numerator (top number) and the denominator (bottom number) by the same number.

Example: $\frac{6}{12} \div 2 = \frac{3}{6}$  $\frac{6}{12} = \frac{3}{6}$

More examples: $\frac{6}{12} \div 3 = \frac{2}{4}$ $\frac{6}{12} = \frac{2}{4}$ $\frac{6}{12} \div 6 = \frac{1}{2}$ $\frac{6}{12} = \frac{1}{2}$

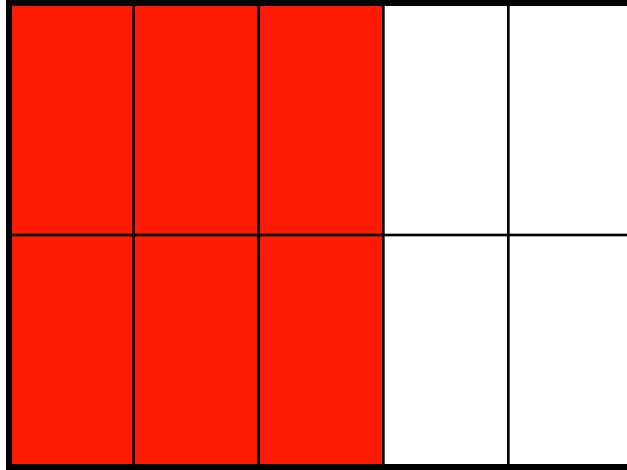
ALL EQUIVALENT!!!





NOW YOU TRY!!!

Form 3 equivalent fractions for the model below.



$$\frac{6}{10} = \underline{\hspace{2cm}}$$

$$\frac{6}{10} = \underline{\hspace{2cm}}$$

$$\frac{6}{10} = \underline{\hspace{2cm}}$$

Compare your fractions with mine on the next page.



$$\begin{array}{r} \underline{6} \\ 10 \end{array} \times 2 = \begin{array}{r} \underline{12} \\ 20 \end{array}$$

$$\begin{array}{r} \underline{6} \\ 10 \end{array} = \begin{array}{r} \underline{12} \\ 20 \end{array}$$

$$\begin{array}{r} \underline{6} \\ 10 \end{array} \div 2 = \begin{array}{r} \underline{3} \\ 5 \end{array}$$

$$\begin{array}{r} \underline{6} \\ 10 \end{array} = \begin{array}{r} \underline{3} \\ 5 \end{array}$$

$$\begin{array}{r} \underline{6} \\ 10 \end{array} \times 3 = \begin{array}{r} \underline{18} \\ 30 \end{array}$$


$$\begin{array}{r} \underline{6} \\ 10 \end{array} = \begin{array}{r} \underline{18} \\ 30 \end{array}$$

Form 2 equivalent fractions for the model below.

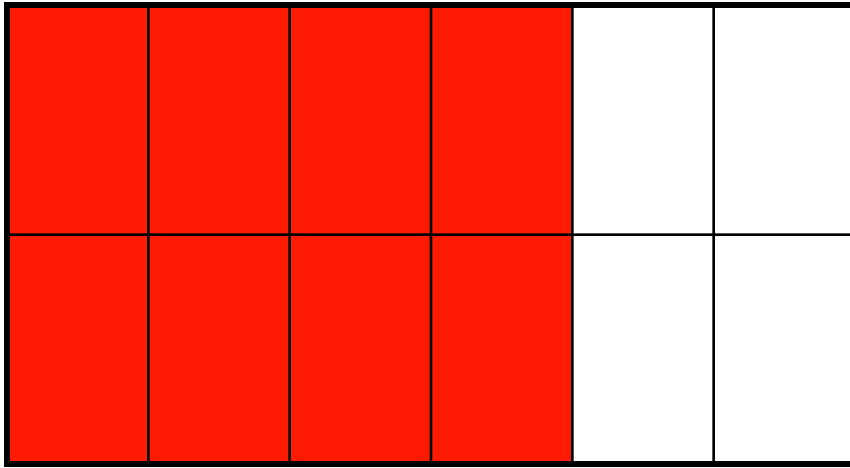


$$\frac{4}{6} = \underline{\hspace{2cm}}$$

$$\frac{4}{6} = \underline{\hspace{2cm}}$$

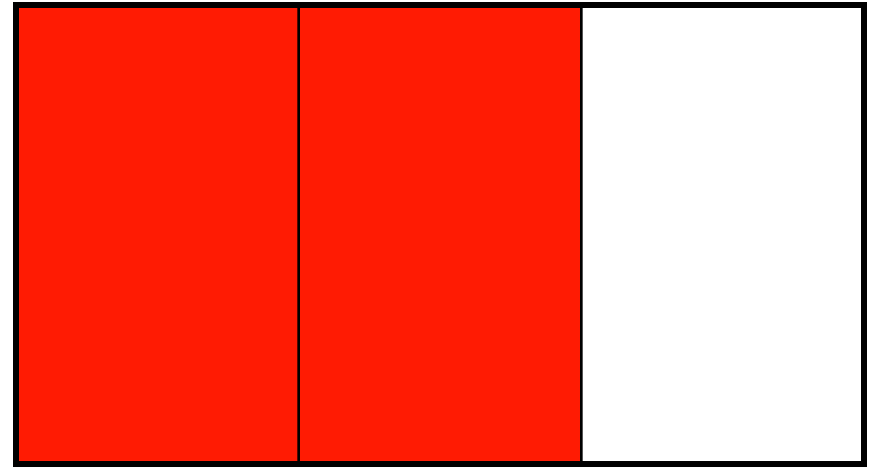
Compare your answers with mine on the next page. 

EQUIVALENT FRACTIONS!!!



$$\frac{4}{6} = \frac{8}{12}$$

I multiplied top and bottom by 2.



$$\frac{4}{6} = \frac{2}{3}$$

I divided top and bottom by 2.

DID YOU?

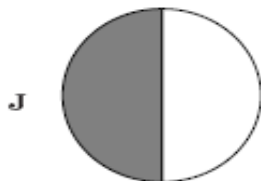
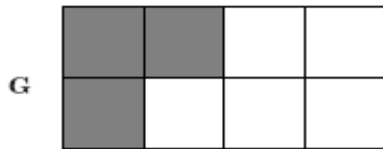
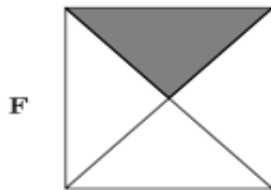


**LET'S SEE HOW MUCH
YOU HAVE
LEARNED!!!**

Check your answers to the next problems at the end.

EQUIVALENT FRACTIONS

- 14 Which model is shaded to show a fraction equivalent to $\frac{3}{6}$?



TRY THIS!

Write the fraction for each model.
Find equivalent fractions for $\frac{3}{6}$.

6

Do any of your fractions equal the fractions represented by the models?

EQUIVALENT FRACTIONS

23 The model is shaded to represent a fraction.



Which model below shows an equivalent fraction?

A



B



C



D



TRY THIS!

Write the fraction for each model.

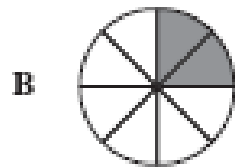
Find equivalent fractions for $\frac{1}{2}$.

2

Do any of your fractions equal the fractions represented by the models?

EQUIVALENT FRACTIONS

2 Which model is shaded to show a fraction equivalent to $\frac{2}{5}$?



TRY THIS!

Write the fractions for each model.
Find equivalent fractions for $\frac{2}{5}$.

Do any of your fractions equal the fractions represented by the models?

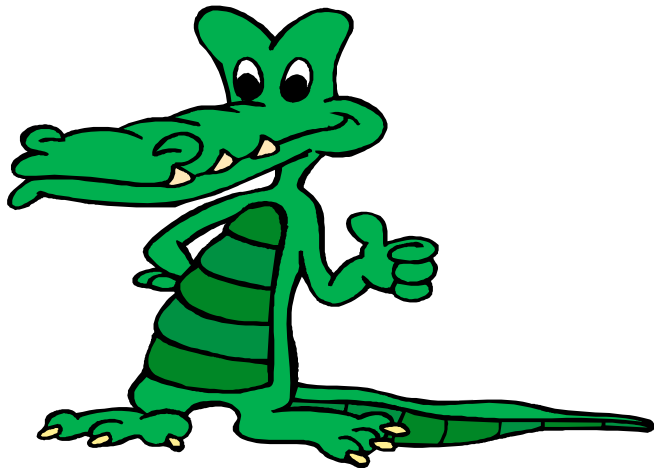
LET'S CHECK YOUR ANSWERS!

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

$$\frac{1}{2} = \frac{2}{4}$$

$$\frac{2}{5} = \frac{4}{10}$$

DID YOU GET IT RIGHT? WAY TO GO!!!





**NOW YOU WILL CREATE
YOUR OWN EQUIVALENT
FRACTIONS!!!**

Create your own fractions for each model by shading in some parts.
Then form 2 equivalent fractions for each model.

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CONGRATULATIONS!!!

JOB WELL DONE, AND WE WILL SEE YOU AGAIN

SOON IN

**“DR. DRAGONOSKY’S
MAD MATH LAB”**