Ma 9 C – Guided Notes

Date _____ Name _____

Fractions: Identifying and Equivalent

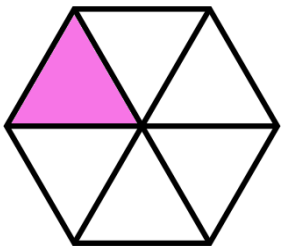
CC: A6: I can model mathematics
C4: I can represent math concretely, pictorially and symbolically
D2: I can connect math concepts to each other and to everyday life

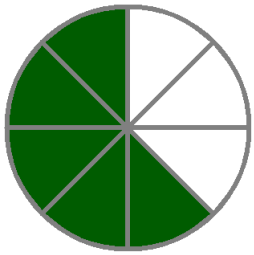
When will we ever use this?
- time
- measurement
- ounces
- baking
- gas (fuel)
- science
- pizza
- medication
- Cashing out Money

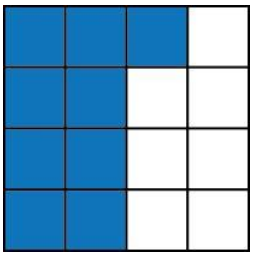
A fraction is a way of represent a part of a whole. The numerator represents the number of parts you have, the denominator represents the number of pieces that make a whole.

part 14 ← # being sat in
whole 30 ← whole # of chairs

What fraction of the shape below is shaded?

a.  $\frac{1}{6}$

b.  $\frac{5}{8}$

c.  $\frac{9}{16}$

What fraction does this represent?

a. There are four months left of school. $\frac{4}{10}$

b. Fred had 3 out of 5 on the last quiz. $\frac{3}{5}$

c. The pizza was cut into 8 pieces. We ate 7 pieces already! $\frac{7}{8}$

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Equivalent fractions: Fractions that are the same, but have different #'s

$\frac{1}{2}$ $\frac{2}{4}$ $\frac{5}{10}$

How do you find equivalent fractions?

$\frac{1}{2} \xrightarrow{\times 2} \frac{2}{4}$ $\quad$ $\frac{5}{10} \xrightarrow{\div 5} \frac{1}{2}$

Multiply or divide the numerator (top) and denominator (bottom) by the same value

Find an equivalent fraction:

$\frac{1}{2} \xrightarrow{\times 3} \frac{3}{6}$ $\quad$ $\frac{3}{4} \xrightarrow{\times 2} \frac{6}{8}$ $\quad$ $\frac{2}{3} \xrightarrow{\times 6} \frac{12}{18}$

$\frac{3}{4} \xrightarrow{\times 4} \frac{12}{16}$ $\quad$ $\frac{2}{3} \xrightarrow{\times 8} \frac{16}{24}$

Find the missing term.

a. $\frac{4}{5} = \frac{?}{10}$ $\quad$ $\times 2$ $\quad$ $? = 8$

b. $\frac{2}{3} = \frac{8}{?}$ $\quad$ $\times 4$ $\quad$ $? = 12$

= Equivalent means equal =