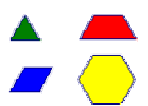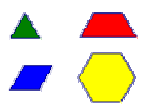Pattern blocks

Pattern Block Fraction Questions

An important concept for understanding fractions, is that the size that the fraction refers to depends on the size of 1 whole. (Half of a large pizza is different from half of a small pizza)

1. If the yellow hexagon is 1 whole, then

a. What piece is $\frac{1}{2}$?

b. What piece is $\frac{1}{3}$?

c. What piece is $\frac{1}{6}$?

d. We can write $\frac{2}{6}$ for 2 greens. Write a number for 5 greens:

e. Write a number for 2 blues

f. Write a number for 3 reds

g. Is 1 blue more or less than $\frac{1}{2}$?

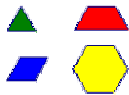h. Are two blues more or less than $\frac{1}{2}$?

Pattern blocks

2. Now this shape is 1 whole:

a. How many blues cover the shape?

b. How many greens cover the shape?

c. What piece is $\frac{1}{2}$?

d. What piece is $\frac{1}{4}$?

e. Write a fraction for 3 greens.

f. What other piece makes the same fraction as 3 greens?

g. Which of these problems do you think a third grader would find most difficult and why?

Pattern blocks

3. If you know a part, you can figure out the whole.
For each question, describe or draw the shape that would show the answer

a. If the green piece is $\frac{1}{2}$ what is 1 whole?

b. If the blue is $\frac{1}{3}$ what is 1 whole?

c. If the green piece is $\frac{1}{3}$ what is 1 whole?

d. If the green piece is $\frac{1}{3}$ what is $\frac{2}{3}$?

e. If the green is $\frac{1}{5}$ what is 1 whole?

f. If the red is $\frac{1}{3}$ what is 1 whole?

g. If the yellow is $\frac{1}{2}$ what is 1 whole?

h. If the blue is $\frac{1}{4}$ what is $\frac{3}{4}$?

Apr 14-7:20 PM