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Pattern Block Fractions

From "20 Thinking Questions for PATTERN BLOCKS Grades 6-8"
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1. "What is the area?" Use the following Pattern Blocks: 3 green triangles, 2 blue rhombuses (rhombi), 1 red trapezoid, and 1 yellow hexagon. If the area of the green triangle equals $\frac{1}{6}$, what is the area of all the blocks together? Record your solution and explain you found the total area.
2. "What does a design worth 15 look like?" Suppose a blue rhombus equals $\frac{1}{2}$. What does design worth 15 look like? Record your design and explain how you know the design is equal to 15.
3. "What does a design worth 4 and $\frac{3}{4}$ look like?" Suppose a green triangle equals $\frac{1}{4}$. What does a design worth 4 and $\frac{3}{4}$ look like? Use the least number of Pattern Blocks possible to build your design. Record the design and explain how you know it equals 4 and $\frac{3}{4}$ and that you have used the fewest blocks possible.
4. "What design can you create?" What design can you create using your Pattern Blocks? The yellow area should be 3 times the green area. The blue area should be $\frac{1}{2}$ the green area. Record your design and explain how you know you are correct.
5. "How can you stack your design so that it equals 11?" If a green triangle equals $\frac{1}{6}$, can you use your pattern blocks to make a design worth 1 and $\frac{2}{3}$? How can to stack (repeat) your design so that it equals 11? Record your design and your stack. Explain how you know you are right.
6. "What is the shape?" Use your Pattern Blocks to solve this puzzle: A shape has 11 blocks and a perimeter of 12 units. There are twice as many green blocks as blue blocks and $\frac{1}{3}$ as many red blocks as green. What could the shape look like? Record the shape and explain how you know you have a correct solution.
7. "How many layers do you need?" Create a star design with 1 yellow hexagon and 6 green triangles. If a green triangle equals 3, how many layers of stars would it take to equal 150? Record your solution and explain how you know you are correct.
8. [Using decimals] "What does a design worth 2.3 look like?" If a blue rhombus equals 0.2, what does a design worth 2.3 look like? Use your Pattern Blocks to create a design worth 2.3. Record your design and explain how you know your design is worth 2.3.
9. [Using percents] "What does a design that is 60% yellow look like?" Use your Pattern Blocks to create a design in which 60% of the area is yellow. What does the design look like? Record your solution and explain how you know you are correct.