Euclid’s bakery sells hexagonal pies. They sell pieces shaped like triangles, rhombi and trapezoids.

1. a) Shade $2 \frac{5}{6}$ pies: __________  
   b) How many pieces did you shade? _____
   c) Write an improper fraction from the amount of pie shaded: ________

2. Make a model of the pies below with pattern blocks. Place the smaller shapes on top of the hexagons, and then write a mixed and improper fractions for each pie.
   a) __________  
   Mixed Fraction: __________  
   Improper Fraction: ________
   b) __________  
   Mixed Fraction: __________  
   Improper Fraction: ________
   c) __________  
   Mixed Fraction: __________  
   Improper Fraction: ________

3. Use the hexagon as the whole pie. Use the triangles, rhombuses and trapezoids as the pieces. Make a pattern block model of the fractions below. Then sketch your models on the grid.
   a) $2 \frac{1}{2}$  
   b) $3 \frac{1}{2}$
   c) $2 \frac{5}{6}$  
   d) $2 \frac{2}{3}$

4. Using the hexagon as the whole pie and the smaller pieces as the parts, make a pattern block model of the fractions. Sketch your model below.
   a) $\frac{5}{2}$  
   b) $\frac{13}{6}$
   c) $\frac{7}{3}$  
   d) $\frac{14}{3}$
5. Using the trapezoid as the whole pie, and triangles as the pieces, make a pattern block model of the fractions. Sketch your models on the grid.

a) \( \frac{5}{3} \)

\[ \text{Diagram of } \frac{5}{3} \]

b) \( \frac{7}{3} \)

\[ \text{Diagram of } \frac{7}{3} \]

c) \( 1 \frac{2}{3} \)

\[ \text{Diagram of } 1 \frac{2}{3} \]

d) \( 2 \frac{1}{3} \)

\[ \text{Diagram of } 2 \frac{1}{3} \]

Draw sketches (using the hexagon as the whole) to find the answers below.

6. Which fraction is greater: \( 2 \frac{5}{6} \) or \( \frac{15}{6} \)?

\[ \text{Diagram of } 2 \frac{5}{6} \] and \[ \text{Diagram of } \frac{15}{6} \]

7. Which fraction is greater: \( 3 \frac{1}{3} \) or \( \frac{11}{3} \)?

\[ \text{Diagram of } 3 \frac{1}{3} \] and \[ \text{Diagram of } \frac{11}{3} \]

8. Draw a picture to show \( 2 - \frac{1}{6} \).

\[ \text{Diagram of } 2 - \frac{1}{6} \]

9. How much larger than a whole pie is \( \frac{11}{6} \) of a pie?

\[ \text{Diagram of } \frac{11}{6} \]

10. How much larger than two pies is \( \frac{7}{3} \)?

\[ \text{Diagram of } \frac{7}{3} \]

11. Ravi says \( \frac{9}{6} \) pies is the same amount as \( 1 \frac{1}{2} \) pies. Is he correct?

\[ \text{Diagram of } \frac{9}{6} \] and \[ \text{Diagram of } 1 \frac{1}{2} \]

12. Jane sold \( 1 \frac{2}{3} \) pies. Clara sold 11 pieces. (Each piece was \( \frac{1}{6} \) of a pie). Who sold more pie?

\[ \text{Diagram of } 1 \frac{2}{3} \] and \[ \text{Diagram of } 11 \]

13. Bernie ate \( 2 \frac{2}{3} \) pizzas in June. How many third-sized pieces did he eat?

\[ \text{Diagram of } 2 \frac{2}{3} \] and \[ \text{Diagram of } \]