3.17 Unit Review

Unit 3: Factors, Multiples, and Fractions

Name: _____ Date: _____ Class/Period: _____

Problem 3.219 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.
For each number, list every value from $2, 3, 4, 5, 6, 9,$ and 10 that divides it.

$1{,}134$

Problem 3.220 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.
For each number, list every value from $2, 3, 4, 5, 6, 9,$ and 10 that divides it.

$2{,}475$

Problem 3.221 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.
For each number, list every value from $2, 3, 4, 5, 6, 9,$ and 10 that divides it.

$8{,}640$

Problem 3.222 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.
For each number, list every value from $2, 3, 4, 5, 6, 9,$ and 10 that divides it.

3,316

Problem 3.223 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.
For each number, list every value from $2, 3, 4, 5, 6, 9,$ and 10 that divides it.

9,009

Problem 3.224 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.
For each number, list every value from $2, 3, 4, 5, 6, 9,$ and 10 that divides it.

7,182

Problem 3.225 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

List all positive factors of 36.

Problem 3.226 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

List all positive factors of 72.

Problem 3.227 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

Classify 83 as prime or composite.

Problem 3.228 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

Classify 119 as prime or composite.

Problem 3.229 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

Find the prime factorization of 96.

Problem 3.230 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

Find the prime factorization of 315.

Problem 3.231 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

Find the prime factorization of $1{,}188$.

Problem 3.232 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

A number has prime factorization $2^4 \cdot 3 \cdot 7$. Write it in standard form.

Problem 3.233 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

Find $\text{GCF}(42, 70)$.

Problem 3.234 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

Find $\text{GCF}(84, 126)$.

Problem 3.235 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

Find $\text{GCF}(48, 72, 120)$.

Problem 3.236 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

Find $\mathrm{LCM}(12, 18)$.

Problem 3.237 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

Find $\mathrm{LCM}(24, 30)$.

Problem 3.238 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

Find $\mathrm{LCM}(8, 15, 20)$.

Problem 3.239 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

A florist has 48 roses and 72 lilies. Find the greatest number of identical bouquets and the flowers in each.

Problem 3.240 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

Two alarms sound every 18 minutes and 24 minutes. They sound together at noon. When do they next sound together?

Problem 3.241 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

Crackers come in packs of 15, and cheese sticks come in packs of 12. Find the least equal number of each and the packages needed.

Problem 3.242 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

Two boards are 56 inches and 84 inches long. They are cut into equal pieces of greatest possible length. Find the piece length and number of pieces.

Problem 3.243 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

Write $5\frac{3}{7}$ as an improper fraction.

Problem 3.244 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

Write $2\frac{11}{12}$ as an improper fraction.

Problem 3.245 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

Write $\frac{41}{8}$ as a mixed number.

Problem 3.246 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

Write $\frac{73}{12}$ as a mixed number.

Problem 3.247 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

Simplify $\frac{45}{60}$.

Problem 3.248 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

Simplify $\frac{84}{126}$.

Problem 3.249 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

Simplify $\frac{132}{48}$ and write as a mixed number.

Problem 3.250 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

Simplify $3\frac{21}{28}$.

Problem 3.251 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

Find x: $\frac{7}{12} = \frac{x}{48}$.

Problem 3.252 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

Find x: $\frac{18}{x} = \frac{3}{5}$.

Problem 3.253 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

Determine whether $\frac{14}{21}$ and $\frac{22}{33}$ are equivalent.

Problem 3.254 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

Compare: $\frac{11}{18} \square \frac{5}{8}$.

Problem 3.255 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

Compare: $2\frac{7}{15} \square 2\frac{5}{12}$.

Problem 3.256 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

Order $\frac{5}{12}, \frac{4}{9}, \frac{7}{18}$ least to greatest.

Problem 3.257 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

Order $1\frac{3}{4}, \frac{17}{8}, 2\frac{1}{10}$ greatest to least.

Problem 3.258 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

Write two different fractions between $\frac{3}{5}$ and $\frac{2}{3}$.

Problem 3.259 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

Write $\frac{3}{4}$ as a sum of two distinct unit fractions.

Problem 3.260 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

Write $\frac{4}{5}$ as a sum of distinct unit fractions.

Problem 3.261 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

Write $\frac{5}{7}$ as a sum of distinct unit fractions.

Problem 3.262 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

Determine whether

$$\frac{5}{6} = \frac{1}{2} + \frac{1}{3}$$

is an Egyptian-fraction representation. Explain.

Problem 3.263 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

Write $\frac{1}{5}$ as a sum of two distinct unit fractions. Verify your representation with a common denominator.

Problem 3.264 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

Find n:

$$\frac{7}{8} = \frac{1}{2} + \frac{1}{3} + \frac{1}{n}.$$

Problem 3.265 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

Find two different
Egyptian-fraction representations of $\frac{2}{3}$.

Problem 3.266 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

Verify that

$$\frac{4}{5} = \frac{1}{2} + \frac{1}{4} + \frac{1}{20}.$$

Problem 3.267 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

$\frac{7}{18} + \frac{5}{18}$

Problem 3.268 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

$3\frac{7}{20} - 1\frac{13}{20}$

Problem 3.269 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

$\frac{5}{6} + \frac{7}{12}$

Problem 3.270 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

$\frac{11}{15} - \frac{2}{9}$

Problem 3.271 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

$2\frac{3}{8} + 4\frac{5}{12}$

Problem 3.272 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

$7\frac{1}{4} - 3\frac{5}{6}$

Problem 3.273 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

$\frac{13}{8} + \frac{17}{12}$

Problem 3.274 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

$5 - 2\frac{7}{10}$

Problem 3.275 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

$1\frac{5}{18} + 2\frac{7}{24}$

Problem 3.276 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

$9\frac{2}{15} - 4\frac{11}{18}$

Problem 3.277 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

$\frac{3}{4} - \frac{5}{12} + 1\frac{1}{6}$

Problem 3.278 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

$3\frac{5}{8} + \frac{7}{10} - 1\frac{1}{4}$

Problem 3.279 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

$\frac{7}{12} \cdot \frac{8}{21}$

Problem 3.280 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

$2\frac{3}{5} \cdot \frac{15}{16}$

Problem 3.281 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

$1\frac{7}{9} \cdot 2\frac{1}{10}$

Problem 3.282 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

$\frac{5}{14} \cdot \frac{21}{25} \cdot \frac{4}{3}$

Problem 3.283 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

$\frac{9}{10} \div \frac{3}{5}$

Problem 3.284 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

$4 \div \frac{7}{12}$

Problem 3.285 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

$3\frac{1}{8} \div 1\frac{1}{4}$

Problem 3.286 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

$\frac{22}{27} \div \frac{11}{18}$

Problem 3.287 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

Find $\frac{7}{16}$ of 48.

Problem 3.288 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

How many $\frac{5}{8}$-cup servings fit in $7\frac{1}{2}$ cups?

Problem 3.289 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

A rectangle is $4\frac{2}{3}$ by $2\frac{1}{4}$. Find its area.

Problem 3.290 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

A $10\frac{1}{2}$-meter rope is divided equally into 6 pieces. Find each length.

Problem 3.291 **Directions:**
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

A trail is $9\frac{5}{12}$ miles long. Mira walks $3\frac{7}{8}$ miles. How much remains?

Problem 3.292 **Directions:**
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

A recipe uses $2\frac{2}{3}$ cups of oats per batch. How many cups are needed for $3\frac{3}{4}$ batches?

Problem 3.293 **Directions:**
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

A tank contains 24 liters. Three-eighths is drained. How much remains?

Problem 3.294 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

A $12\frac{3}{4}$-yard roll is cut into $\frac{3}{4}$-yard pieces. How many complete pieces are made?

Problem 3.295 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

A classroom has 30 students. Two-fifths bring lunch and one-third buy pizza. The rest buy sandwiches. How many buy sandwiches?

Problem 3.296 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

A painter combines $3\frac{1}{2}$ gallons of white paint and $2\frac{5}{8}$ gallons of blue paint, then divides the mixture equally into 7 containers. How much is in each?

Problem 3.297 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

A book is $5\frac{1}{4}$ inches thick when 7 identical volumes are stacked. How thick is one volume?

Problem 3.298 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

A farmer uses $\frac{5}{12}$ of a field for corn and $\frac{2}{7}$ for beans. What fraction remains for other crops?

Problem 3.299 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

A bakery has $18\frac{3}{4}$ pounds of dough. It uses $1\frac{7}{8}$ pounds for each of 6 trays. The remaining dough is divided equally among 3 small trays. How much goes in each small tray?

Problem 3.300 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

A rectangular mural is $6\frac{2}{3}$ meters long and $3\frac{3}{4}$ meters high. Two-fifths of the area is painted blue, and the rest is split equally between green and yellow. Find the area of each color.

Problem 3.301 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

A water tank is $\frac{3}{5}$ full and contains 42 gallons. After $12\frac{1}{2}$ gallons are used, the remaining water is poured equally into 7 containers. How much is in each container?

Problem 3.302 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

A runner completes 4 laps of $1\frac{3}{8}$ miles and then 3 laps of $\frac{5}{6}$ mile. How much farther is the first set of laps than the second?

Problem 3.303 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

A class raises $\$240$. One-fourth is spent on supplies. Three-fifths of the remaining money is donated. How much money is left?

Problem 3.304 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

A board is $15\frac{1}{2}$ feet long. Pieces of $2\frac{1}{4}$ feet are cut until no full piece remains. How many pieces are cut, and how much board is left?

Problem 3.305 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

A recipe for 18 muffins uses $2\frac{1}{4}$ cups of flour. A baker wants 42 muffins and has 6 cups of flour. Is there enough flour? Justify with exact calculations.

Problem 3.306 Directions:
The review begins by topic and then moves into mixed reasoning. Show enough work to make the method clear, simplify fraction answers, and write mixed numbers when appropriate. For explanation problems, a correct number without a justification is not a complete solution.

A club orders 8 pizzas. Each pizza is cut into 12 equal slices. Students eat $\frac{5}{8}$ of all slices at lunch and $\frac{1}{6}$ of the original total after school. How many slices remain?