**BLM 7.N.7.3: Comparing Fraction and Decimal Equivalents**

Solve the following problems.

1. A bag is filled when it contains 5 marbles. If you have 17 marbles, how many bags can you fill? What fraction of the final bag is filled? Write the number of bags as a mixed number. Explain your answer.

2. Write decimal equivalents for the following fractions.



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3. Julio was converting results from a probability experiment into decimal form so that the results would be easier to compare. Whenever possible, he used mental mathematics strategies to find an equivalent fraction with a denominator of base 10.

a) Finish Julio’s calculations below. (One example is provided.)

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b) For which examples can you **not** use Julio’s mental mathematics method? Explain why not.

4. Sometimes it is easier to compare numbers by converting decimals to fractions.

a) Use base-10 blocks to show 3.45. Write this number as a fraction in lowest terms.

b) Represent the following decimals as fractions in lowest terms. Show your thinking.

0.245

1.62

5. Keith spent 1.8 h on his math homework. Marie spent  h on the same task. Each claims to have spent more time than the other. Who is right? Explain how you know.