

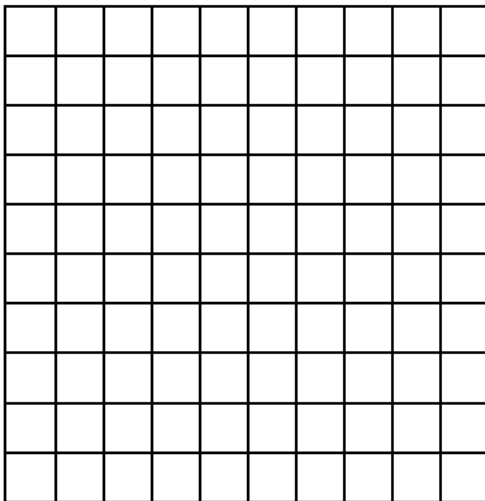
Comparing Fractions, Decimals, and Percents

- A **ratio** is a _____ of two quantities using multiplication or division.
- A _____ is a number that shows a part-to-whole ratio, as $\frac{\text{part}}{\text{whole}}$.
 - If the ratio of girls to total students is **2:5**, $\frac{\text{girls}}{\text{students}} = \frac{2}{5}$, so $\frac{2}{5}$ of the students are girls.
- A _____ is a number that shows a part-to-whole ratio, where the whole is 10.
 - If the ratio of girls to total students is **2:5**, $\frac{\text{girls}}{\text{students}} = \frac{2}{5} = \frac{4}{10}$, so **0.4** of the students are girls.
- A _____ is a number that shows a part-to-whole ratio, where the whole is 100.
 - If the ratio of girls to total students is **2:5**, $\frac{2}{5} = \frac{4}{10} = \frac{\quad}{100}$, so _____% of the students are girls.

Problem 1

Robb's Fruit Farm consists of 100 acres on which three different types of apples grow. On 25 acres, the farm grows Empire apples. McIntosh apples grow on 30 acres of the farm. The remainder of the farm grows Fuji apples.

Shade in the 10 x 10 grid below to represent the portion of the farm each type of apple occupies. Use a different color for each type of apple. Create a key to identify which color represents each type of apple.



Color Key

Part-to-Whole Ratio

Empire _____

McIntosh _____

Fuji _____

Which portion of the fruit farm is taken up by each type of apple? Fill in the table below.

Type of Apple	Fraction of fruit farm	Decimal of fruit farm	Percent of fruit farm
Empire			
McIntosh			
Fuji			

Problem 2

Claire, Ron, Emily, and Andre all took the same test. Here's how they did:

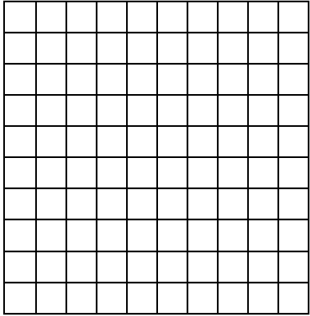
Claire: "I got 75 out of 100 questions correct."

Ron: "I got $\frac{8}{10}$ of the questions correct."

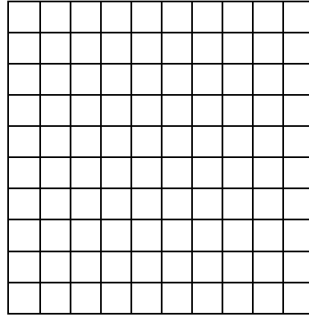
Emily: "I got 0.80 of the questions correct."

Andre: "I got a score of 83% on the test."

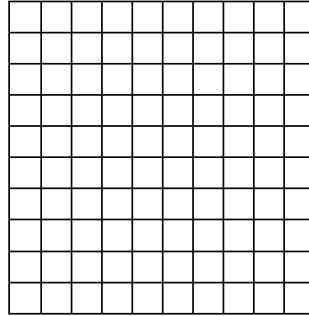
Use the 10 x 10 grids to represent how many questions each person got correct.



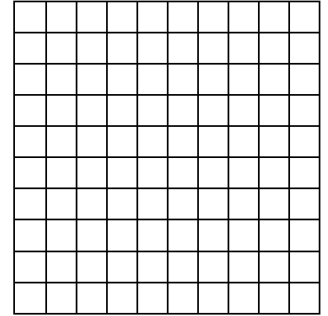
Claire



Ron



Emily



Andre

Fill the table below with the test scores of Claire, Ron, Emily, and Andre. Compare their scores.

Name	Fraction (reduced)	Fraction	Decimal	Percent
Claire		$\frac{75}{100}$		
Ron		$\frac{8}{10}$		
Emily			0.80	
Andre				83%

Who received the best score on the test? Explain your reasoning.

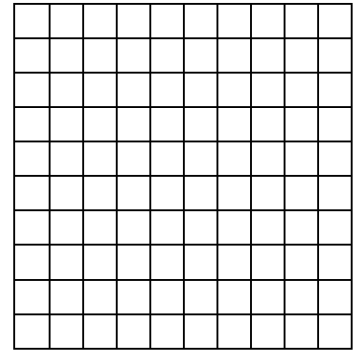
Who received the worst score on the test? Explain your reasoning.

Name _____

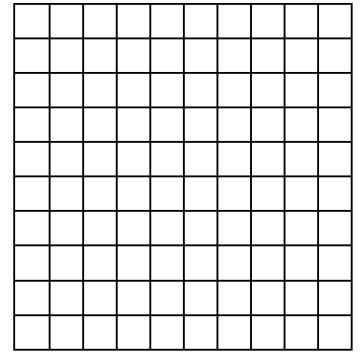
Date _____

Class _____

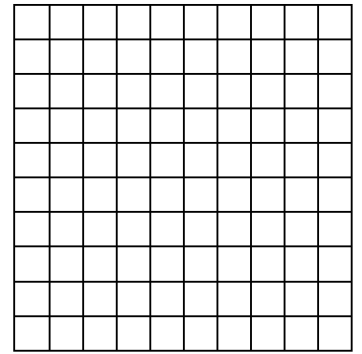
32%



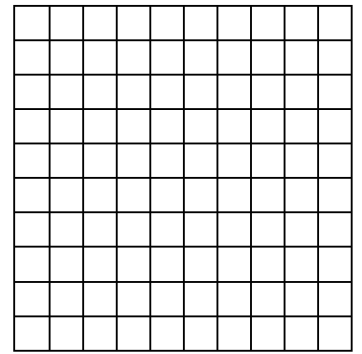
0.55



$\frac{9}{10}$



$\frac{3}{5}$



0.125

