Counting Classmates

Suppose there are ten people in an art class. Ten out of ten students attend the class each day. What fraction describes the class’ daily attendance?

______ What decimal number represents this fraction? ______

Now, suppose four of the students have blond hair. What fraction of students have blond hair?

______ What decimal number represents this fraction? ______

You could find out what part of the whole group does NOT have blond hair by solving a decimal number sentence:

\[ 1.0 - 0.4 = \_
\]

Pick ten classmates. Answer each question using fractions and decimals.

1. How many have brown eyes? ______________________

   How many ride the bus to school? ______________________

   How many play a musical instrument? ______________________

   How many are wearing sneakers? ______________________

Write decimal number sentences to solve each question.

2. How many do not have brown eyes? ______________________

   How many do not ride the bus to school? ______________________

   How many do not play a musical instrument? ______________________

   How many are not wearing sneakers? ______________________

3. Order the answers you found in exercise 1 from least to greatest.

   ______________________________________________________

4. Make up your own question to ask your test sample. Write a number sentence using decimals to show your findings.

   ______________________________________________________
Counting Classmates

Suppose there are ten people in an art class. Ten out of ten students attend the class each day. What fraction describes the class’ daily attendance?

\[ \frac{10}{10} \]  
What decimal number represents this fraction? 1.0

Now, suppose four of the students have blond hair. What fraction of students have blond hair?

\[ \frac{4}{10} \]  
What decimal number represents this fraction? 0.4

You could find out what part of the whole group does NOT have blond hair by solving a decimal number sentence:

\[ 1.0 - 0.4 = 0.6 \]

Pick ten classmates. Answer each question using fractions and decimals.

1. How many have brown eyes?  
   Answers will vary.

   How many ride the bus to school? ________________

   How many play a musical instrument? ________________

   How many are wearing sneakers? ________________

Write decimal number sentences to solve each question.

2. How many do not have brown eyes? ________________

   How many do not ride the bus to school? ________________

   How many do not play a musical instrument? ________________

   How many are not wearing sneakers? ________________

3. Order the answers you found in exercise 1 from least to greatest.  
   Answers will vary.

4. Make up your own question to ask your test sample. Write a number sentence using decimals to show your findings.

   Check students’ work.