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\begin{array}{|l|l|}\hline & \begin{array}{l}\text { Sometimes a ratio can provide us with useful } \\
\text { information in everyday situations and also } \\
\text { provide us with some statistical information. }\end{array}
$$ \\
Example 4: candice drove her hybrid vehicle \\
480 miles on 10 gallons of gas. What is the \\
ratio of miles to gallons for candice's hybrid? \\
Example 5: At a certain high school there are \\
425 female students and 375 male students. \\
a) what is the ratio of female students to \\

male students?\end{array}\right]\)| b) Based on your reduced ratio in part a), |
| :--- |
| theoretically in a classroom of 32 |
| students, how many should be female? |

Answer the following homework questions.
in Exercises 1-12, write each ratio as a reduced ratio comparing two whole numbers.

1) 7 to 8
2) $\frac{7}{9}$ to $\frac{18}{21}$
3) 2.1 to 0.03
4) 75 to 50
5) $\frac{10}{27}$ to $\frac{15}{54}$
6) 0.04 to 12
7) $0.5: 5$
8) 1.2 to 3.4
9) $2 \frac{1}{2}$ to $\frac{3}{4}$
10) $3.5: 0.7$
11) 0.204 to 0.6
12) $3 \frac{3}{4}$ to $2 \frac{2}{3}$

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