

# 1.1 Learning Opportunity

## Estimation Strategies



Name: \_\_\_\_\_

Estimate by first rounding to the nearest whole number.

1)  $5.82 - 1.76$

2)  $6.07 \cdot 3.29$

Use compatible numbers to estimate each quotient.

3)  $27.66 \div 3.14$

4)  $\frac{31.47}{7.56}$

- 5) The elevator in building J has a maximum loading capacity of 2500 pounds. A group of students is about to enter the elevator. If the average weight of these students is 118 pounds, estimate the largest group size (number of students) that could safely ride the elevator. (When estimating, consider the effects of overestimating or underestimating).

**THIS ELEVATOR  
MAXIMUM CAPACITY**

**2500 LBS.**

- 6) After completing a test, Nicole carefully checks her work. She calculated the quotient shown below. Do a quick estimate using compatible numbers to determine whether her quotient,  $25\frac{2}{3}$  is reasonable.

$$580 \div 23 = 25\frac{5}{23}$$

- 7) Lucas rides 2.3 miles from his house to school, 1.82 miles from school to the soccer field, then 3.9 miles from the soccer field to his house. He does this five days a week. **Approximately how far** does he ride per week?



- 8) Lucca is travelling to a golf tournament 389.2 miles from his home. The family car gets 29.6 miles per gallon of gasoline. If the price of a gallon of gas is \$2.16, **about how much** will the gasoline for the trip cost?

