



Activity 4: Shortcuts—Multiples of 10

Use your calculator to solve each set of problems below. Then describe the pattern you see and write a method to explain what is happening.

1. Set 1

a. $36 \times 0.1 =$

b. $3.6 \times 0.1 =$

c. $360 \times 0.1 =$

d. $.36 \times 0.1 =$

e. Now choose three numbers and multiply each by 0.1 on the calculator. What do you notice when you multiply by 0.1?

2. Set 2

a. $78 \times 0.01 =$

b. $780 \times 0.01 =$

c. $7.8 \times 0.01 =$

d. $.78 \times 0.01 =$

e. Now choose three numbers and multiply each number by 0.01 on the calculator. What do you notice when you multiply by 0.01?

3. Set 3

- a. $0.94 \times 10 =$
- b. $0.094 \times 10 =$
- c. $9.4 \times 10 =$
- d. $94.0 \times 10 =$
- e. Now choose three numbers and multiply each number by 10 on the calculator. What do you notice when you multiply by 10?

4. Set 4

- a. $67 \times 100 =$
- b. $6.7 \times 100 =$
- c. $0.067 \times 100 =$
- d. $0.67 \times 100 =$
- e. Now choose three numbers and multiply each by 100 on the calculator. What do you notice when you multiply by 100?

- 5. Describe the method you use for multiplying by powers of 10. Use complete sentences.