

LAB **Technology Recording Sheet (pp. 20–21)**
1-4 *Explore the Order of Operations*

Activity 1

Think and Discuss

1. In $4 + 15 \div 15$, which operation do you perform first? How do you know?

2. Tell the order in which you would perform the operations in the expression $8 \div 2 + 6 \cdot 3 - 4$.

Try This

Evaluate each expression with pencil and paper. Check your answer with a calculator.

1. $4 \cdot 12 - 7$ _____

2. $15 \div 3 + 10$ _____

3. $4 + 2 \cdot 6$ _____

4. $10 - 4 \div 2$ _____

Activity 2

Think and Discuss

1. In $15 + 5 + 4$, does it matter which operation you perform first? Explain.

2. Does it matter which operation you perform first in $15 - 5 + 4$? Explain.

LAB
1-4 **Technology Recording Sheet (pp. 20–21)**
Explore the Order of Operations, continued**Try This**

Evaluate each expression. Check your answer with a calculator.

1. $8 - 6 - 1$ _____

2. $20 \div 5 \div 2$ _____

3. $3 \cdot 6 \cdot 2$ _____

4. $19 + 6 + 5$ _____

Activity 3**Think and Discuss**

1. To evaluate $13 + 5 \cdot 255$ on a calculator, you type $13 + 5$ and then press the \times key. But before you can type in the 255, the display changes to show 18!

a. Does this calculator follow the correct order of operations? Why?

b. How could you use this calculator to evaluate $13 + 5 \cdot 255$?

Try This

Insert parentheses to make the value of each expression 12.

1. $56 - 40 + 4$ _____

2. $3 - 1 \cdot 10 - 4$ _____

3. $18 \div 2 + 1 + 6$ _____

4. $100 + 8 \div 2 \cdot 2 + 5$ _____