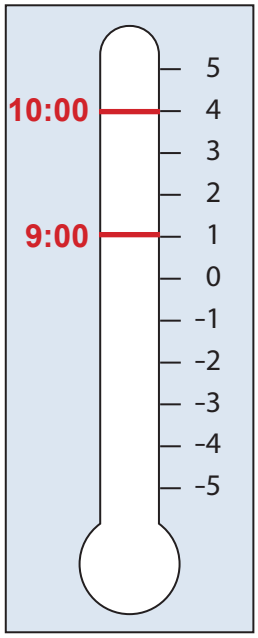
ACTIVITY 3 DRAWING MODELS

A model is a picture of a problem. Model each temperature problem on the given thermometer. Then write and solve the appropriate numerical expression for each problem.

1. The temperature was 1° Celsius at 9:00 a.m. The temperature rose 3° Celsius during the next hour. What was the temperature at 10:00 a.m.?

Model:

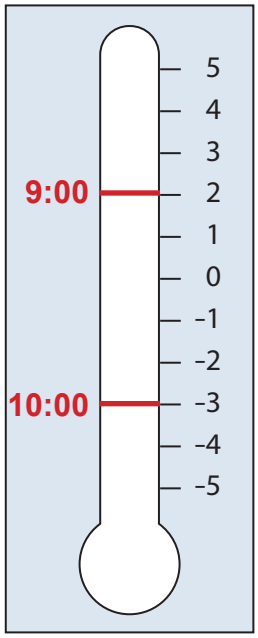


Expression: **1° + 3°**

Answer: **4°**

2. The temperature was 2° Celsius at 9:00 a.m. The temperature dropped 5° Celsius during the next hour. What was the temperature at 10:00 a.m.?

Model:

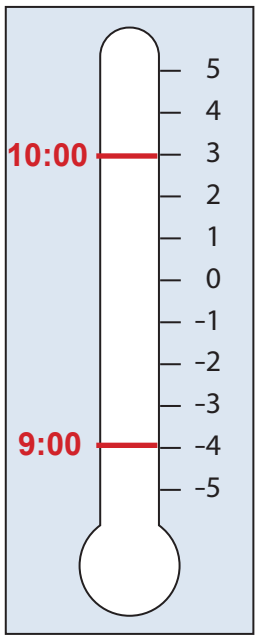


Expression: **2° – 5°**

Answer: **–3°**

3. The temperature was –4° Celsius at 9:00 a.m. The temperature rose 7° Celsius during the next hour. What was the temperature at 10:00 a.m.?

Model:



Expression: **– 4° + 7°**

Answer: **3°**

4. Create a temperature problem that has a final answer of –13° Celsius. Then have a classmate write and solve the appropriate numerical expression for that problem.

   ex. – 4° + – 9° = – 13°

5. Create a temperature problem that has a positive starting temperature and a negative ending temperature. Then have a classmate write and solve the appropriate numerical expression for your problem.

   ex. 5° + – 8° = – 3°

   The temperature was 5° at noon, the temperature dropped 8°

6. Create a temperature problem that has a negative starting temperature and a positive ending temperature. Then have a classmate write and solve the appropriate numerical expression for your problem.

   ex. – 3° + 5° = 2°

   The temperature was –3° at 9:00, the temperature rose 5°

7. Create a temperature problem that has a negative starting temperature and a negative ending temperature. Then have a classmate write and solve the appropriate numerical expression for your problem.

   ex. – 1° – 5° = – 6°

   The temperature was–1° at midnight, the temperature dropped 5°