

# USING THE BTPS CF TABLE

In this exercise, use the BTPS cf table.

1. Before testing, compare the spirometers temperature reading with an independent thermometer in the same vicinity as the spirometer. If there is a discrepancy, correct the spirometer temperature.
2. Look up the BTPS correction factor (cf).

Record this amount in the BTPS cf column in the FEV<sub>1</sub> row and in the FVC row on the chart on page 93.

**Table1: Testing Below 3000 ft.**

| Temp C | Temp F | BTPS Factor |
|--------|--------|-------------|
| 17     | 62.6   | 1.118       |
| 18     | 64.4   | 1.114       |
| 19     | 66.2   | 1.111       |
| 20     | 68.0   | 1.102       |
| 21     | 69.8   | 1.096       |
| 22     | 71.6   | 1.091       |
| 23     | 73.4   | 1.085       |
| 24     | 75.2   | 1.080       |
| 25     | 77.0   | 1.075       |
| 26     | 78.8   | 1.068       |
| 27     | 80.6   | 1.063       |
| 28     | 82.4   | 1.057       |
| 29     | 84.2   | 1.051       |
| 30     | 86.0   | 1.045       |
| 31     | 87.8   | 1.039       |
| 32     | 89.6   | 1.032       |
| 33     | 91.4   | 1.026       |
| 34     | 93.2   | 1.020       |
| 35     | 95.0   | 1.014       |
| 36     | 96.8   | 1.007       |
| 37     | 98.6   | 1.000       |
| 38     | 100.4  | 0.994       |
| 39     | 102.2  | 0.987       |
| 40     | 104.0  | 0.980       |

**Table 2: Testing Above 3000 ft.**

| Temp C | Temp F | High Altitude BTPS Factor |
|--------|--------|---------------------------|
| 20     | 68     | <b>1.111</b>              |
| 21     | 70     | <b>1.105</b>              |
| 22     | 71.5   | <b>1.099</b>              |
| 23     | 73.5   | <b>1.094</b>              |
| 24     | 75     | <b>1.088</b>              |
| 25     | 77     | <b>1.081</b>              |
| 26     | 79     | <b>1.076</b>              |
| 27     | 80.5   | <b>1.069</b>              |
| 28     | 82.5   | <b>1.063</b>              |
| 29     | 84     | <b>1.056</b>              |
| 30     | 86     | <b>1.049</b>              |

## CALCULATE THE BTPS CORRECTED VOLUMES

In this exercise, calculate the BTPS corrected FVC and FEV<sub>1</sub> values.

1. Multiply the ATPH volumes by the BTPS correction factor to obtain the BTPS corrected values for the FVC and FEV<sub>1</sub>.
2. Enter data on chart located on page 93.