Exercise A4: Measuring Angles in the Sky

Student name: _____ Class: _____ Date: _____

Check the box with the correct answer.

Question 1: The angular distance between Merak and Dubhe is:

- ☐ **a.** 5° 22' 25"
- ☐ **b.** 10° 05' 17"
- ☐ **c.** 5° 0' 0"
- ☐ **d.** 10° 13' 41"

Question 2: From this location in Toronto, Ontario, Canada, the angular distance between Polaris and the zenith is approximately:

- ☐ **a.** 38°
- ☐ **b.** 44°
- ☐ **c.** 47°
- ☐ **d.** 52°

Question 3: The Moon's apparent angular diameter is approximately:

- ☐ **a.** 10'
- ☐ **b.** 15'
- ☐ **c.** 20'
- ☐ **d.** 30'

Question 4: The calculated diameter of Mars is:

- ☐ **a.** 1900 km
- ☐ **b.** 3260 km
- ☐ **c.** 6510 km
- ☐ **d.** 6790 km