

- Of the 36 students in Richelle’s class, 12 prefer chocolate pie, 8 prefer apple, 6 prefer blueberry, and as many of the remaining students prefer cherry pie as lemon. For Richelle’s pie graph showing this data, how many degrees should she use for cherry pie?

(A) 10

(B) 20

(C) 30

(D) 50

(E) 72

**2001 AMC 8, Problem #13— “Find the fraction of students that prefer cherry pie.”**

- **Solution**

(D) Since  $12 + 8 + 6 = 26$ , there are  $36 - 26 = 10$  children who prefer cherry or lemon pie. These ten are divided into equal parts of 5 each.

$$\frac{5}{36} \times 360^\circ = 5 \times 10^\circ = 50^\circ.$$

**Difficulty:** Medium-hard

**NCTM Standard:** Measurement Standard: Apply appropriate techniques, tools, and formulas to determine measurements

**Mathworld.com Classification:** Number Theory > Arithmetic > Fractions > Percent