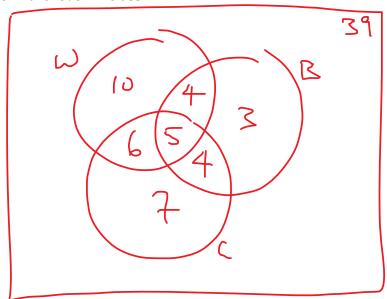
Chapter 1.4 - Venn Diagram Practice

- 1. In a school, the following information was collected about the different ways level III students got to school in the month of September.
 - 25 students walked to school
 - 16 students rode their bike
 - 22 students drove their car
 - 9 students walked and biked
 - 11 students walked and drove their car
 - 9 students biked and drove their car
 - 5 students used all three methods

If these are the only three methods the students used to get to school, how many students are in the level III class?



10+4+3+6+5+4+7=39

- 2. A survey of 370 people concerning their shopping habits shows that:
 - 130 people shop at Target.
 - 160 people shop at Walmart.
 - 140 people shop at Costco.
 - 80 people shop at Target and Costco.
 - 70 people shop at Walmart and Costco.
 - 50 people shop at all three stores.
 - 100 people don't shop in either of these stores.

How many people shop at Target and Walmart?

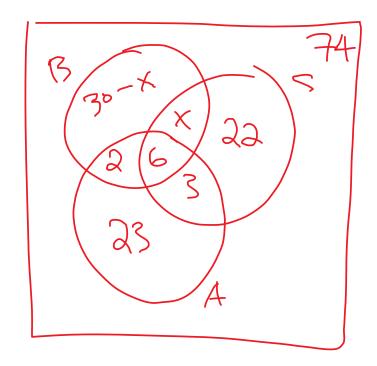
$$50-x+x+90-x+30+50+20+40 = 270$$

 $280-x=270$
 $280-270=x$
 $x=10$

10+50 = 60 shop at Target & Walmert.

- 3. In a college 74 part-time students fill out registration forms:
 - 38 want the Business course.
 - 31 want the Science course.
 - 8 want both the Art course and the Business course.
 - 23 want the Art course only.
 - 9 want both the Art Course and the Science course.
 - 6 want all three courses.

How many want the Business course only?



30-x+x+20-x+2+6+3+23=74 86-x=74 86-74=x x=1230-12=18 Want the business course only.