

1

In a certain building, $\frac{1}{5}$ of the offices have both a window and bookshelves. If the rest of the offices in the building have either a window or bookshelves but not both, what is the ratio of the number of offices with a window but not bookshelves to the number of offices with bookshelves but not a window?

(1) The number of offices with a window is $\frac{4}{5}$ the number with bookshelves.

(2) $\frac{3}{10}$ of the offices with bookshelves also have a window.

2

In Washington School, **150 students study physics or biology or both**. If 60 of these students do not study biology, how many of these students study both physics and biology?

(1) Of the 150 students, 40 do not study physics.

(2) A total of 110 of the students study physics.

3

Each member of a pack of 55 wolves has either brown or blue eyes and either a white or a grey coat. If there are more than 3 blue-eyed wolves with white coats, are there more blue-eyed wolves than brown-eyed wolves?

(1) Among the blue-eyed wolves, the ratio of grey coats to white coats is 4 to 3.

(2) Among the brown-eyed wolves, the ratio of white coats to grey coats is 2 to 1.

4

In a group of 80 college students, how many own a car?

(1) Of the students who do not own a car, 14 are male.

(2) Of the students who own a car, 42% are female.

5

Each first-year student at a certain school selects either the traditional curriculum or the modern curriculum. Of the first-year students at the school, 65 percent selected the modern curriculum and the rest selected the traditional curriculum. What percent of the first-year students are female?

(1) Twice as many female first-year students selected the modern curriculum than selected the traditional curriculum.

(2) Of the first-year students who selected the traditional curriculum, 55 percent are female.

6

Of the 800 sweaters in a certain store, 150 are red. How many of the red sweaters at the store are made of pure wool?

(1) 320 of the sweaters at the store are neither red nor made of pure wool

(2) 100 of the red sweaters at the store are not made of pure wool

7

Are at least 80 percent of the people in Country X who are 25 years old or younger full-time students?

(1) In Country X, 32 percent of the population is 25 years old or younger.

(2) In Country X, of the population 25 years old or younger, 90 percent of the women and 75 percent of the men are full-time students.