

Hints and solutions

1. The universe is Sarah's friends that go to North High School.

Set 1 is Sarah's friends that are taking Spanish

Set 2 is Sarah's friends that are taking French

Hint: 4 friends are not taking either one, and 6 are not taking Spanish. How can you put those two clues together?

Final solution: 6 friends are taking Spanish and are not taking French—can you fill in the whole Venn diagram to get that solution?

2. The universe is students in Ms Nelson's class

set 1 is Ms Nelson's students who go to Lego club

set 2 is Ms Nelson's students who go to board game club

Hint: if 8 students do go to Lego club, how many students do not go to Lego club? How many of them go to board game club?

Final solution: 3 students go to Lego club but not board game club.

3. The universe is Sam's books

Set 1 is fantasy books

Set 2 is fiction books

Set 3 is hardback books

Note: paperback books means "not hardback" books, and "non-fiction" means "not fiction"

Hint: how can you use the clue about Sam's 12 fantasy books, and 24 fiction books together?

Final solution: Sam has 39 books

4. The universe is pens in my drawer

Set 1 is markers

Set 2 is erasable pens

Set 3 is black pens

Hint: 20 pens are not markers. Can you figure out how many pens are markers?

Final solution: 5 pens are not erasable, not black and not markers.