# Averages (les moyennes) 

SAN DIEGO FRENCH $\star$ AMERICAN SCHOOL
dmeyer@math.ucsd.edu

1. Dennis has 8 cookies and Julian has 10 cookies. If they share their cookies equally, how many cookies does each boy get? This number is called the average (or mean; la moyenne) of 8 and 10.
2. Anouk has 18 cookies and Olivia has 20 cookies. If they share their cookies equally, how many cookies does each girl get?
3. Matias has 97 balloons and Michael has 101 balloons. If they share their balloons equally, how many balloons does each boy get?
4. What is the average of:

- 6 and 10 ?
- 3 and 15 ?
- 2, 3 and 4 ?
- 82,83 and 84 ?
$\star 3,12$ and 15 ?
$\star 5$ and 6 ?
$\star 1,2,3,4,5,6,7,8,9$ and 10 ?
$\star x$ and $y$ ?
$\star x, y$ and $z$ ?

5. If Harmony walks 3 miles in 1 hour, we say that her average speed is 3 miles/hour ("miles per hour"). If she walks 4 miles in 1 hour, what is her average speed?
6. If Carolyn walks 6 miles in 2 hours, what is her average speed?
7. If Eleanor runs 3 miles in 30 minutes ( $\frac{1}{2}$ hour) and then walks 2 more miles in 30 more minutes, what is her average speed?
8. If Alain Prost drives 300 miles at 60 miles/hour, how long does it take him to finish?
9. If he drives 300 miles at 30 miles/hour, how long does it take him to finish?
10. If he drives 300 miles at 60 miles/hour, and then drives 300 miles back at 30 miles $/$ hour, how long does it take him to finish? What is his average speed for the whole trip?
11. Is your answer to question 10 the average of 60 miles/hour and 30 miles/hour? Why or why not?
