



Activity 1: Watch Out!

Each of the following scenarios shows someone's reasoning. Try to follow their reasoning. Then give your own reasoning or way of thinking about each problem.

Scenario 1

Anita is counting 2 volunteers' hours on garden workdays.

Lila	
Date	Hours
4/14	2.5
4/13	1.0
4/7	4.25

Aman	
Date	Hours
4/14	$2\frac{3}{4}$
4/13	$3\frac{1}{2}$

Lila writes her hours using decimals. Aman writes his hours using fractions. Anita added quickly: $425 + 25 + 1 = 451$ minutes for Lila.

$6\frac{1}{4}$ hours for Aman. Together 10 hours then $\frac{1}{4} + \frac{51}{60}$. Then she was stuck.

- Is Anita's calculation correct so far? How do you know?
- Use strips or a sketch to show how the calculation for Lila's total is incorrect.
- Use decimals to show how Anita's answer for Lila's total was incorrect.
- Provide the correct total for the volunteers' hours.

Scenario 2

Elena works at a deli. A customer buys 0.8 lb. of turkey breast, 1.2 lbs. of corned beef, and 0.4 lb. of pastrami. Elena said, “Wow! That’s a lot of meat—24 lbs.!”

Do you agree with Elena’s statement? Explain.

Scenario 3

This chart was given to a reporter covering a 10K race.

	Male Winning Times (min.)	Female Winning Times (min.)
Youth (under 16)	41.32	40.0
Adult (16-60)	35.02	35.0
Seniors (60 plus)	46.03	46.0

The reporter wrote this story:

Mighty Fast Females

On Saturday, there was a huge upset when female runners ran faster than the male runners in every age category.

Fifteen-year-old Anne Evans beat the winning boy, Harvey Yee, by 13.2 minutes. Mia Calla, age 23, beat Sam Paley by 5.48 minutes. And the biggest upset of all was when 65-year-old Lucy Marza completed the race 45 minutes and 57 seconds ahead of Mark LaRue.



Do you agree with the reporter’s math? Explain.