

Palomar College Math Placement Test Study Guide Prealgebra

Topic 9: Averages

1. Find the average: 24, 37, 18, 21, 30
2. Dakota took 5 tests in his algebra class. When he computed his average test score, he mistakenly divided the sum of his test scores by 6, and got an average of 70. What is Tom's correct average test score?
3. The grade point average (GPA) for a group of 20 students was 2.9. If the average for $\frac{3}{4}$ of these students was 3.1, what was the average GPA for the rest of the students?
4. A group of 40 people were participating in a weight loss study. The 25 women in the group lost an average of 16 pounds each during the study. The 15 men in the group lost an average of 20 pounds each during the study. What was the average weight loss per person for the entire group?
5. A student kept a record of how long he studied for his math class each day for a week. He recorded the following:

Day	Time Studying
Monday	2 hrs 15 min
Tuesday	$\frac{1}{2}$ hour
Wednesday	1 hr 20 min
Thursday	None
Friday	1 hour 10 min
Saturday	2 hours
Sunday	None

What was the student's average daily study time for his math class during this week? Round to the nearest minute.

6. Taylor rode her bicycle at an average speed of 6 mph to a scenic viewpoint 30 miles from her starting point. She returned to her starting point at an average speed of 10 mph. What was her average speed for the entire bicycle trip?

7. If you travel for 1 hour at 50 mph and 2 hours at 20 mph, what is your average speed?

Answers are on the next page.

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Prealgebra**

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Answers:

1. 26
2. Dakota's correct average test score is 84.
3. The average GPA for the rest of the students is 2.3
4. The average weight loss per person for the entire group was 17.5 pounds.
5. The student's average daily study time was 1 hour and 2 minutes.
6. Taylor's average speed for her entire bicycle trip was 7.5 mph.
7. Your average speed is 30 mph.