

Answers

1. If 125,000 units could effectively treat six patients, how many units would the doctor need to treat the 28 new cases of diphtheria?

583,333.33 (or $1/3$)

2. How many total hours did the journey from Nenana to Nome take?

126.5

3. Round your answer from question 2 to the nearest whole number. If the distance of the “Great Race for Mercy” spanned 674 miles, what was the average speed of a musher and his sled dogs? Round your answer to the nearest tenths place.

Hint: rate = distance/time

5.3 mph

4. Find the mean and median for the data in the table on the previous page.

Mean: 33.7 Median: 30

5. Brrrrrr! The following freezing cold temperatures (F) were recorded during the Serum Run:

-50, -30, -30, -35, -40, -42, -44, -47, -43, -40, -50, -64, -58, -50, -50, -40, -30

Use these values to create a stem-and-leaf plot. What are the median and mode of this data?

Median: -43.7 Mode: -50

-64, -58, -50, -50, -50, -50, -47, -44, -43, -42, -40, -40, -40, -35, -30, -30, -30

Stem	Leaf
-6	4
-5	0 0 0 0 8
-4	0 0 0 2 3 4 7
-3	0 0 0 5