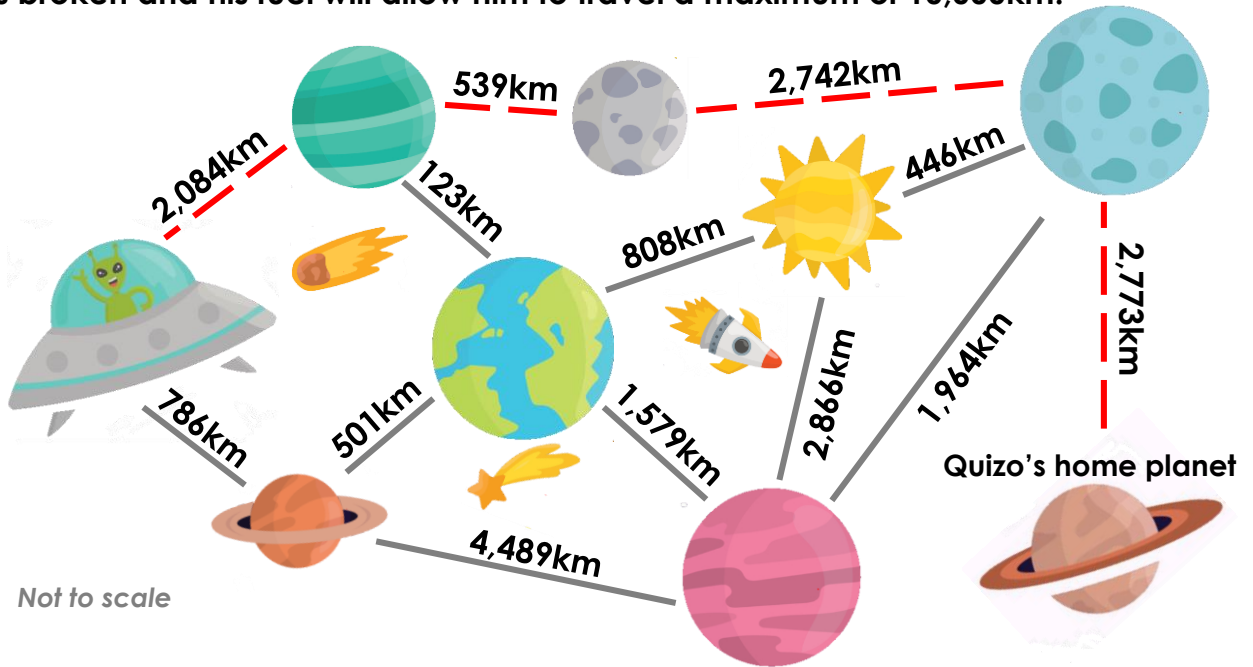


Estimate Answers

1. Quizo the alien is travelling through space trying to find his home planet. His radar has broken and his fuel will allow him to travel a maximum of 10,000km.



Investigate the different routes he could take by rounding these distances to the nearest 10, 100 or 1,000 and finding their approximate totals.

Various answers, for example: $2,000\text{km} (2,084\text{km}) + 500\text{km} (539\text{km}) + 2,700\text{km} (2,742\text{km}) + 2,770\text{km} (2,773\text{km}) = 7,970\text{km}$

DP

2. Farmer Wayne has 9,350 grams of hay stored in his barn. He says,



Below are the amounts of hay each of my farm animals eat on average, every day.



donkey = 1,469g



sheep = 1,684g



pig = 1,576g



horse = 6,071g



goat = 2,253g

Round the amounts above to the nearest 10 to find out which combinations of animals Farmer Wayne could feed.

Various answers, for example: $\text{donkey} (1,470\text{g}) + \text{pig} (1,580\text{g}) + \text{horse} (6,070\text{g}) = 9,120\text{g}$

Explore rounding these amounts to a mixture of the nearest 10, 100 or 1,000. Do your combinations change? Various answers, for example: Yes – $\text{donkey} (1,500) + \text{pig} (2,000) + \text{horse} (6,000) = 9,500\text{g}$

DP