

Name: _____

Period: _____

Tornado Math!

VORTEX2 was the largest research project with over 100 scientific participants from many different universities and research laboratories to track tornadoes. VORTEX2 was on route from May 10 until June 13, 2009 and May 1 until June 15, 2010. International participants were drawn from Italy, Netherlands, United Kingdom, Germany, Canada and Australia.



The VORTEX2 fleet covered 26,000 miles during its research mission.

1. There were 40 vehicles in the fleet. If each of those vehicles drove the entire mission, how many total miles did the mission log?
2. On average, the fleet covered 10 miles per gallon of fuel. Keep in mind that the smaller, lighter vehicles in the fleet are more fuel efficient than the heavier vehicles, so they got more miles per gallon. But, the fleet-wide average was 10 miles per gallon of fuel. Use your answer from the question about to see how many gallons of fuel were used.
3. During its total mission, VORTEX2 observed 25 tornadoes. How many miles of searching, on average, did it take to find a tornado?
4. When the entire VORTEX2 team stopped for a restroom break, how many minutes did they need? There were 150 people. Assume 1.5 minutes per person. How long would it take if there is...
1 restroom=
2 restrooms=
3 restrooms=
If the team only has 45 minutes for their rest break, how many restrooms do they need to find?