

Distance and Displacement

Name: _____

For each question plot the path on a sheet of paper. Include your scale.

1. Asha drives her car 45 kilometres north. She stops for lunch and then drives 15 kilometres east. What distance did she cover? What was her displacement?
2. Anthony walks to the pizza place for lunch. He walks 1 km east, then 1 km south and then 1 km east again. What distance did he cover? What was his displacement?
3. On his fishing trip Justin takes the boat 25 km south. The fish aren't biting so he goes 10 km west. He follows a school of fish 15 km north. What distance did he cover? What was his displacement?
4. Preston goes on a camel safari in Africa. They he travels 5 km north, then 3 km east and then 1 km north again. What distance did he cover? What was his displacement?
5. Mateo pogo sticks to his science class. He travels 8 m east the 4 m north. What distance did he cover? What was his displacement?
6. Alan rents a private jet for the weekend. He flies 400 km south to New York, then flies 700 km west to Chicago, then 1200 km south to Miami. What distance did he cover? What was his displacement? (use 1cm = 100km)
7. Shreya buys a new Seadoo. She goes 12 km north from the beach. She jumps wakes for 6 km to the east. Then chases a boat 10 km north. What distance did she cover? What was her displacement?
8. Alex goes cruising on his dirt bike. He rides 700 m north, 300 m east, 400 m north, 600 m west, 1200 m south 300 m east and finally 100 m north. What distance did he cover? What was his displacement? (use 1cm = 100m)
9. Stephen buys a new moped. He travels 3 km south and then 4 km east. How far does he need to go to get back to where he started?

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