

Distance and Displacement Worksheet

Name: _____ Per _____

For each question plot the path on the grid paper.

1. Chanice drives her scooter 7 kilometres north. She stops for lunch and then drives 5 kilometres east. What distance did she cover? What was her displacement?
2. Anthony walks to the pizza place for lunch. He walk 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 rides in a boat 12 km south. The fish aren't biting so they go 4 km west. They then follow a school of fish 1 km north. What distance did they cover? What was their displacement?
4. Tara goes on a camel safari in Africa. She travels 5 km north, then 3 km east and then 1 km north again. What distance did she cover? What was her displacement?
5. 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)
6. Jose 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?



Calculating speed, time, distance Name _____

Equations:
$$\text{Speed} = \frac{\text{Distance}}{\text{Time}}$$

Directions: Use the equation above to answer the following questions. Show your work and include the units.

1. A football field is about 100 m long. If it takes a person 20 seconds to run its length, how fast (what speed) were they running?
2. The pitcher's mound in baseball is 85 m from the plate. It takes 4 seconds for a pitch to reach the plate. How fast is the pitch?
3. If you drive at 100 km/hr for 6 hours, how far will you go?
4. If you run at 12 m/s for 15 minutes, how far will you go?
5. Every summer I drive to Pennsylvania. It is 895 km to get there. If I average 100 km/hr, how much time will I spend driving?
6. A bullet travels at 850 m/s. How long will it take a bullet to go 1 km?
7. Every winter I fly home to Chicago. It takes 3 hours. What is my average speed?
8. The fastest train in the world moves at 500 km/hr. How far will it go in 3 hours?
9. How long will it take light moving at 300,000 km/s to reach us from the sun? The sun is 15,000,000 km from earth.