

Distance and Displacement Worksheet

For each question plot the path

Name: Key Per: _____



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? $\text{dist.} = 7 \text{ km} + 5 \text{ km} = 12 \text{ km}$

$$\text{displ.} = \sqrt{7^2 + 5^2} = 8.6 \text{ km (NE)}$$

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?

$$\text{dist} = 1 \text{ km} + 1 \text{ km} + 1 \text{ km} = 3 \text{ km}$$

$$\text{displ} = \sqrt{2^2 + 1^2} = \sqrt{5 \text{ km}^2} = 2.2 \text{ km (SE)}$$

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?

$$\text{distance} = 12 \text{ km} + 4 \text{ km} + 1 \text{ km} = 17 \text{ km}$$

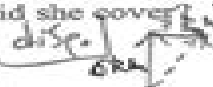


$$\text{displ.} = \sqrt{11^2 + 9^2} = \sqrt{121 \text{ km}^2 + 81 \text{ km}^2}$$

$$\text{displ.} = 11.7 \text{ km (SW)}$$

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?

$$\text{dist} = 5 \text{ km} + 3 \text{ km} + 1 \text{ km} = 9 \text{ km}$$



$$\text{displ} = \sqrt{3^2 + 6^2} = \sqrt{9 \text{ km}^2 + 36 \text{ km}^2}$$

$$= \sqrt{45 \text{ km}^2} = 6.7 \text{ km (NE)}$$

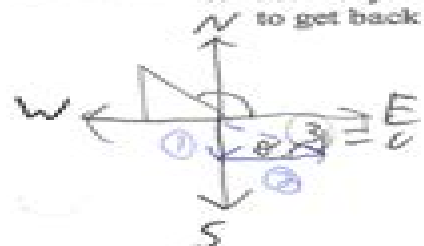
5. Alex goes cruising on his dirt bike. He rides 700 m north, 300 m east, 400 m north, 600 m west, 1200 m south 300 m east and finally 100 m north. What distance did he cover? What was his displacement? (use 1 cm = 100m)

$$\text{dist} = (700 + 300 + 400 + 600 + 1200 + 300 + 100) \text{ m} = 3600 \text{ m}$$

$$\text{displ } N + S = [700(N) + 400(N) - 1200(S) + 100(N)] \text{ m} = 0 \text{ m}$$

$$E + W = 300 \text{ m (E)} - 600 \text{ m (W)} + 300 \text{ m (E)} = 0 \text{ m}$$

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?



$$c^2 = \sqrt{3^2 + 4^2}$$

$$c^2 = \sqrt{25 \text{ km}^2}$$

$$c = 5 \text{ km (NW)}$$

at an angle of 18.3° with East being 0°

$$\tan(\theta) = \frac{3}{4}$$

$$\tan^{-1}\left(\frac{3}{4}\right) = \theta = 36.87^\circ$$

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