

**Bearing Practice #1**

Name: \_\_\_\_\_

For each make a diagram and show your work in solving.

1. Devon is looking for buried treasure. His map tells him to walk 50 paces on a bearing of  $S 30^\circ E$ . Then he is to walk 40 paces on a bearing of  $N 70^\circ E$ . How far is he from his starting point.

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2. Sydney is running a cross country course. She runs 2 miles on a bearing of  $S 35^\circ E$ . She then runs 3 miles on a bearing of  $N 50^\circ E$ . What is the total length of the course to the nearest hundredth of a meter?

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3. Oliver and Chino leave Pioneer at the same time. If Oliver rides his bike at a rate of 12 mph on a bearing of  $N 60^\circ W$  and Chino walks at a rate of 4mph on a bearing of  $S 10^\circ E$  how far apart will they be 30 minutes later?

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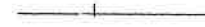
4. Two ships leave port at 9am. One ship is sailing at 30 knots on a bearing of  $N 20^\circ W$ . The second ship is sailing at 20 knots on a bearing of  $S 40^\circ W$ . How far apart are the ships at 1pm? (round to the nearest tenth of a knot)

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5. Lizzie and Rachel leave Pioneer at the same time. Lizzie walks at a rate of 4 mph on a bearing of  $N 70^\circ E$ . Rachel walks at a rate of 3.5 mph on a bearing of  $S 10^\circ W$ . How far apart are the ladies after one hour.



6. Jahi has joined an orienteering club. His map tells him to walk 130 paces on a bearing of  $N 54^\circ E$ . Then he is to walk 65 paces on a bearing of  $S 20^\circ E$ . How far is he from his starting point.



7. Halley is running in a charity event. She runs 1.7 miles on a bearing of  $S 48^\circ W$ . She then runs 1.3 miles on a bearing of  $N 36^\circ W$ . Finally she runs back to the starting point of the race. What is the total length of the course to the nearest tenth of a meter?



8. Tevis and Mike leave Pioneer at the same time. Tevis walks at a rate of 3.5 mph on a bearing of  $S 10^\circ W$ . Mike walks at a rate of 3.2 mph on a bearing of  $S 70^\circ W$ . How far apart are the gentlemen after fifteen minutes.



### Bearing Problem Practice #2

Name: \_\_\_\_\_

For each make a diagram and show your work in solving.

1. Joe is looking for a new route to the store. His map tells him to walk 35 paces on a bearing of  $N 75^\circ W$ . Then he is to walk 26 paces on a bearing of  $S 13^\circ W$ . How far is the store from his starting point.

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2. Marissa is walking through the Central Park. She walks 1.2 miles on a bearing of  $S 42^\circ W$ . She then walks 1.3 miles on a bearing of  $N 12^\circ E$ . She then walks back to her starting point. What is the total distance that she walked?

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3. Tommy and Cam leave Pioneer at the same time. If Tommy drives at 24 mph on a bearing of  $N 10^\circ E$  and Cam walks at a rate of 4mph on a bearing of  $S 80^\circ W$  how far apart will they be 15 minutes later?

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4. Two ships leave port at 10am. One ship is sailing at 20 knots on a bearing of  $S 20^\circ W$ . The second ship is sailing at 25 knots on a bearing of  $S 75^\circ W$ . How far apart are the ships at 1pm? (round to the nearest tenth of a knot)

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