



# Maggie's Activity Pack!

Name \_\_\_\_\_

Date \_\_\_\_\_

## Those Ramblin' Reindeer!

Many people depend on reindeer for their way of life. The Sami people of Scandinavia are one of these cultures. Travel with Maggie, Jenny, Kuma, and Yoshi as they visit the Sami. Learn more about these people and the animals they herd.

*Read more to learn about the Sami and their reindeer. Then solve the math problems.*

### A. Getting to Northern Finland

Maggie and Jenny are packing to meet Yoshi and Kuma in Helsinki, Finland. They know they must bring very warm clothes and good boots. Jenny has taken charge. She is telling Maggie what she must pack in her bag.

“Don’t worry, Maggie. I’ve been on many ski trips. I know what we need to bring. Just put in about 6 sweaters, long underwear, heavy pants, mittens, a good cap. Don’t forget your sunscreen and sunglasses. The sun reflects off the snow!” Jenny continued chattering on as Maggie smiled to herself.

“That Jenny,” thought Maggie. “Shall I tell her? We’ll be in the Arctic Circle in December. We won’t see the sun!” Maggie smiled. She watched Jenny toss her sunglasses into her bag. She decided to keep quiet. “She’ll find out soon enough,” whispered Maggie to Dude. The little dog seemed to wink at his owner.

Finally the two girls were ready. Maggie took out the passports and plane tickets. “Let’s see,” she said. “We leave Washington Dulles at 6:00 PM. We arrive in Helsinki, Finland at 9:00 AM the next morning.”

**It seems the plane ride will take \_\_\_\_\_ hours.**

Maggie smiled. "I know we won't be on the plane that long. Helsinki is 6 hours ahead of Washington. That means I can subtract 6 hours from the number of hours."

**Maggie knows the plane ride will take \_\_\_\_\_ hours.**

Once the friends arrive in Helsinki, they will need to get to the northern part of Finland. They have a choice. They can get on a plane and fly or they can take a train. Jenny knows what she wants to do.

"Maggie, I think we should just get on a plane and get right up there. Don't you? I want to see those reindeer." Jenny was still talking away as she walked away.

"Wait a minute, Jenny," said Yoshi. "We need to get the information."

"Okay," said Jenny. "Maggie do you have the train and plane folders?"

Maggie opened the plane folder. "We will each have to pay \$152 for a one way plane ticket."

**Each friend would have to pay \_\_\_\_\_ for a round trip plane ticket.**

**The four friends would pay \_\_\_\_\_ in total for the round trip plane ride.**

"A one way train ticket costs \$169."

**"Hmm... it will cost each one of us \_\_\_\_\_ to take the train round trip," said Maggie.**

**"Wow," said Jenny. "That means the four of us would pay a total of \_\_\_\_\_ for round trip train tickets."**

“And that is a \_\_\_\_\_ difference between my train ticket and my plane ticket,” added Yoshi. (Round trip)

“So that means we should take the \_\_\_\_\_,” said Kuma as he picked up his bag and walked out the door.

## **B. Oh...Tramping Through the Snow**

“What time is it Maggie?” yelled Jenny.

Maggie yawned and looked at her watch. “It’s about 3:30,” she said.

“Wait a minute – 3:30 in the morning or 3:30 in the afternoon? It feels like it should be 3:30 in the afternoon, but it’s not light outside.”

Maggie smiled. Jenny would now find out for herself why this was called the land of the midnight sun – in summer. In the middle of winter, the land is covered in darkness for almost 24 hours.

“Yikes, that’s right!” yelled Jenny again. “We are in the north. The sun doesn’t really rise in the winter here. How are we going to see reindeer?” Jenny moaned. She leaned back into her seat.

“Don’t worry, Jenny,” laughed Kuma. “I’ve got this!” He pulled a light on a headband out of his backpack. He put it into place on his head. “See, this will light the way! And I’ve got three more. See!” He pulled the head lights out of the bag.

Yoshi laughed. “That’s good because I’ve been looking at this map. There are many great places to hike. We can put on our snowshoes and these headlights. Then we can tramp through the snow. I figure we can go about 13 miles each day.”

“Ohhh,” groaned Jenny. “We’re going to be here 8 days. You better have extra batteries for those things.”

“That’s right,” said Yoshi. He did some math.

**“We’ll be walking a total of \_\_\_\_\_miles!”**

“I don’t know, Yoshi. I think 13 miles is too much. Let’s try for half of that each day,” said Maggie.

**“That means we’ll walk a total of \_\_\_\_\_ miles,” said Kuma.**

“I agree. That sounds better,” said Jenny. She grabbed her bags and stepped off the train into the Arctic cold.

### **C. Take Only Pictures – Leave Only Snowshoe Prints**

Kuma is very excited about the wonderful pictures he is sure to take. He is hoping to use some of these pictures to make a calendar for the new year. He really wants to get close up photos of a reindeer nose. This is one animal that has a built in nose-warmer. A reindeer nose is covered with fur! But Jenny has other ideas.

“Kuma, I think you should get your friends in the pictures this time,” said Jenny. “I was really mad that you didn’t get me in those pictures you took in Africa. Your calendar would have been better if you had a picture of me riding an elephant.” She stomped her foot. “You only had a picture of Dude. And he doesn’t really count because he’s a dog!” Jenny crossed her arms and tapped her left foot. She looked at Kuma. “So,” she said, “Are you going to take any pictures of me?”

“Oh, I have lots of film. Look at this.” Kuma opened up his bag and showed Jenny 4 rolls of 36 pictures each and 2 rolls of 24 pictures each.

“That is a lot of film,” said Jenny. “Let me see. How many photos can you take in all?”

**Kuma can take \_\_\_\_\_pictures.**

Kuma then decides he wants to take 49 pictures of reindeer, 35 pictures of the Sami people, and 24 pictures of the Sami at work. If he does this, how many pictures will he have left to take of Jenny, Maggie, and Yoshi?

**Kuma will have \_\_\_\_\_ pictures left to take of his friends.**

#### **D. Antlers or Horns?**

Maggie was amazed when she came face to face with reindeer. “They’re so big,” she gasped. “And look at those horns! They branch out like a tree. I love the way the reindeer hold their heads. It seems they know their horns are special.”

Kuma and Yoshi looked at each other and smiled. “Do you want to tell her?” asked Yoshi. Kuma nodded. “Well, Maggie. Those aren’t horns. They’re antlers. Horns don’t spread out. Antlers do. And there’s one other difference. Antlers are shed each year. Horns stay.”

Maggie nodded. “I get it, Kuma.” She looked at the reindeer again. “They’re so big. I wonder how much they weigh.”

“I just happen to have my eBook. It can tell us all about reindeer,” said Yoshi. He opened his pack and pulled out the eBook. He clicked a few keys. “Here’s your answer Maggie. Adult male reindeer weigh about 200 pounds in January. Adult females weigh about 188 pounds in January. I can even tell you how much they weigh at birth. Males weigh about 15 pounds when they are born. Females weigh 14 pounds.” Yoshi looked up and smiled. “Let’s see, how much weight reindeer gain?”

**Female reindeer gain \_\_\_\_\_ pounds.**

**Male reindeer gain \_\_\_\_\_ pounds.**

“Do you know how tall reindeer are?” asked Maggie.

“Yes,” answered Yoshi as he clicked away. “Here are more reindeer facts. Calves are about 28 inches at the shoulder when they are born.

Males grow to a height of about 46 inches. Females grow to 38 inches.” He looked up and smiled. “Do you want me to tell you how much reindeer grow?” They all nodded. Yoshi bent over his book. “Okay, I’ve got it.”

**Female reindeer grow \_\_\_\_\_ inches.**

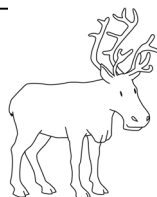
**Male reindeer grow \_\_\_\_\_ inches.**

“Enough about facts,” said Maggie. “Let’s get going. I want to hitch up a reindeer and ride in the snow.”

“Yes, let’s get going,” Yoshi agreed. “But not before I give you one more fact. Did you know that in one day a reindeer can pull a load of 300 pounds over 30 miles?”

Maggie laughed. “Then let’s have that reindeer pull us!”

**Use the last reindeer fact to write your own problem!**



Dear Colleague,

This activity gives your students a chance to see how math can be used in context. We hope they will enjoy the “give and take” between Maggie and her friends as they travel to the northern reaches of Finland to see reindeer in their natural setting. You may want to use this activity as a template and have your students write their own stories about a science or social studies topic and embed math problems into them.

Happy Holidays!

Answer Key:

A. It seems the plane ride will take 15 hours.

Maggie knows the plane ride will take 9 hours.

Each friend would have to pay \$304 for a round trip plane ticket.

The four friends would pay \$1216 in total for the round trip plane ride.

“Hmm... it will cost each one of us \$338 to take the train,” said Maggie.

“Wow,” said Jenny. “That means the four of us would pay a total of \$1352 for round trip train tickets.”

“And that is a \$34 difference between my train ticket and my plane ticket,” added Yoshi.

So that means we should take the plane,” said Kuma as he picked up his bag and walked out the door.

B. We’ll be walking a total of 104 miles!”

“That means we’ll walk a total of 52 miles,” said Kuma.

C. Kuma can take 192 pictures.

Kuma will have 108 pictures left to take of his friends.

D. Female reindeer gain 174 pounds.

Male reindeer gain 185 pounds.

Female reindeer grow 10 inches.

Male reindeer grow 18 inches.

Note: All information is approximate and may have been rounded to provide appropriate math problems.

Goals:

Students will read a story about Maggie and her friends visiting the Arctic Circle to learn more about reindeer. Math problems are a part of the story. Intermediate students will solve multi-step addition, subtraction, and multiplication problems. Primary students solve simple addition and subtraction problems.