

Name: _____

Lindsey Vonn: Queen of the Mountain

When it comes women's skiing, you are sure to hear the name of Lindsey Vonn. Lindsey grew up in Minnesota. She started skiing when she was only three years old! By the time she was seven, she started racing. At age nine, she was travelling to races all over the world. It wasn't long before Lindsey's family decided that the mountains of Colorado would make a better home for a talented skier than the hills of Minnesota.



Lindsey continued to improve. As a teenager, she won several high-profile events. In 2002, she joined the U.S. Olympic Ski Team. At only seventeen, she didn't garner a lot of attention. That quickly changed. Lindsey continued to train and tried to become faster and more consistent. As a result, she won several U.S. National Championships and medals at Junior World Championships and World Cup events.

In 2006, Lindsey was one of the shining stars of the Women's Olympic Ski Team. Sadly, it was not meant to be. During a training run, Lindsey had an accident and crashed. Though she went to the hospital, she wasn't badly hurt. Lindsey decided to stay in the race. She did well, but she just wasn't as fast as she usually was. Lindsey left the 2006 Olympics without a medal.

At the 2010 Olympic Games, Lindsey came back from a painful training injury to win a gold medal in the downhill event and a bronze medal in the super-G.

Lindsey had to pull herself out of the 2014 Olympic Games after a recurring knee injury. Though she was disappointed, she had surgery to repair her knee and was determined to come back stronger than ever. After a few short months of recovery and renewed training, Lindsey Vonn was back on the mountain and the winner's podium.

In 2016 Lindsey sailed to the top of a new list of winners, the *New York Times* Bestseller List, with the release of her book, *Strong Is the New Beautiful*. That didn't mean that Lindsey took a break from skiing, though. She continued racing and added even more medals to her collection. With more than eighty World Cup wins and a few Olympic medals, she is one of the most decorated women skiers of all time.

Name: _____

Lindsey Vonn: Queen of the Mountain

Questions

- _____ 1. Lindsey Vonn started competing in international races when she was _____ years old.
- A. nine
 - B. five
 - C. seven
 - D. three
- _____ 2. In 2002, at the age of 17, Lindsey Vonn joined _____.
- A. the World Cup finals
 - B. the Junior World Team
 - C. the World Cup Team
 - D. the U.S. Olympic Team
3. Lindsey Vonn competes in _____ skiing. This sport is made up of five different events.
- _____ 4. Lindsey Vonn competes in skiing events where the winner is chosen by _____.
- A. the biggest jump
 - B. the fastest time
 - C. the highest score
 - D. all of the above
5. How many World Cup races has Lindsey Vonn won?

Anne wants Wendy to guess a two digit number. She tells Wendy that her number has two different digits. The digits are 1 and 4. Wendy thinks. She then guesses the number 41. What are the chances that Wendy has guessed correctly?

Write the missing family fact.

$$\begin{aligned} 146 - 50 &= 96 \\ 146 - 96 &= 50 \\ 96 + 50 &= 146 \end{aligned}$$

Insert punctuation marks into this sentence.

My mother asked me, Did you change your sheets this morning?

word root **form** can mean **shape**

formation, uniform

☐ Lindsey Vonn has been skiing since she was three years old! Describe an activity that you have enjoyed your whole life. What is it that you enjoy about it?

☐ Imagine that you have just won an Olympic gold medal. How does it make you feel? What will you do with it when you get home?

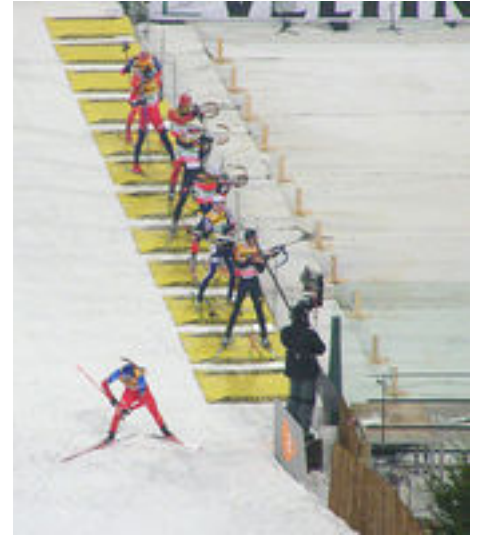
This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

Name: _____

Biathlon

Caption: Several biathletes in the shooting area.

The word biathlon means "two contests." Two sports make up this one sport. Cross-country skiing is one. Target shooting is the other. There are ten biathlon events in the Olympics. In each event, athletes must move through the snow quickly. Skiers make stops along the course. Skiers use rifles to shoot at targets. They shoot standing up. They also shoot in the prone position while lying down on their stomachs. There are a total of five targets they must hit. Depending on their position, the target can be the size of a ping pong ball or a grapefruit. The shooters receive a penalty if they miss a target. There are two types of penalties. Time can be added to a skier's finishing time, or a skier must take an extra lap. Hitting the targets is important. Finishing in the least amount of time is crucial for those who are going for the Olympic gold!



Biathlon

Questions

1. The two sports that make up the biathlon are _____ and _____.

- _____ 2. Athletes are penalized for missing their targets. Which of the following penalties can occur?

A. time is added to their finishing time
 B. they must shoot at three extra targets
 C. three minutes is subtracted from the skier's finishing time
 D. none of the above

- _____ 3. Athletes stand on their feet to shoot in the prone position.

A. false
 B. true

- _____ 4. Skiers use their cross-country skis to race through the snow. Then they stop and shoot at targets. The _____ skier to complete the course wins.

A. heaviest
 B. slowest
 C. tallest
 D. fastest

word root **scribe** can mean **write or written**

circumscribe, inscribe, prescribe

☐ Combine two other Olympic sports into one. What two sports would you combine? What would you name it? How would the new sport be played? How is a winner determined?

☐ How do you think athletes train for this sport? Explain in detail.

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Bjorn Daehlie of Norway won the 10 km combined pursuit event in 1992 with a time of 1:05:37.09. He won the same event in 1994 with a time of 1:00:08.08. What is the difference in the two times?

Two-thirds of the people at the ski jumping competition were adults. Half of the adults were women. Two-fifths of the women were from Italy. There were 7431 people at the competition. How many were adult Italian women?

At the ski jumping competition, five jumpers sailed through the air for more than 100 meters. Their distances were 130.1, 121.5, 121.3, 122.6, and 122.4 meters. What was the median distance they jumped? The mean? The range?

Bill Koch was the first American male to win a cross-country Olympic medal. He won the silver medal in the 30 km race in 1976. How far is 30 km in miles? (Hint: 1 km = 0.62mi)

Write as a decimal.

$$\frac{1}{100}$$

Write as a decimal.

$$16\frac{9}{100}$$

Write as a decimal.

Thirty-seven thousandths

Name: _____

The Biathlon

The biathlon blends the sport of cross-country skiing with shooting. The athletes have basic equipment. Skis and poles move them along the course. A .22 long rifle is carried on their back. Each skier moves from one target to another. He or she gets into position to shoot. Sometimes they stand. At other places, they lie down. There are five events in the sport. Each one varies by length, start, and penalty.



Four races have the same penalty. For a missed target, the skier does a 150-meter penalty loop. The sprint is a 10-kilometer race for men. Women do a 7.5-kilometer race. In this race, athletes start twenty to thirty seconds apart. They ski to the targets. At one, they shoot standing. At the other, they shoot prone. They get five shots at each location. In the pursuit, the athletes start based on their finishing place in a sprint. They shoot two times standing and two times lying down. Women travel 10 kilometers. Men go 12.5 kilometers. In the mass start, all racers start together. Men travel 15 kilometers. Women race for 12.5 kilometers. They shoot four times. Two shots are done standing and two prone. The relay is a four-biathlete race. Each skier in the men's relay races 7.5 kilometers. Each skier in the women's relay races 6 kilometers. They shoot four times. The first leg racers start together. They complete their course. Then they tag the next skier in the race. In each race, the first one to cross the finish line wins.

One race uses a time penalty. It is usually one minute added to the finish time for each target missed. The individual race begins the same as the sprint. This is the oldest race in the event. Men travel 20 kilometers. Women go fifteen. They shoot four times. Five shots are taken at twenty targets on the course. The positions go in order - lying, standing, lying, standing.

The newest additions to the biathlon are the mixed relay and single mixed relay. In the mixed relay, a team of two men and two women work together to complete a course. In the single mixed relay, there is a two-person team made up of one man and one woman.

Soldiers in Norway first used the skills from the biathlon for training. In 1767, the first biathlon race was held in Norway. Groups of border patrol soldiers raced against each other. It took a while for it to become a medal sport. The biathlon was shown at the Olympics for many years. But, teams could not agree on the rules. Finally, in 1960 men vied for a medal. Women were welcomed in 1992. Today, teams from around the world compete, including the United States.

This event isn't very popular in the United States - yet. Among Europeans, though, it is one of the most-watched events of the Winter Olympics. The U.S. team has never won an Olympic medal in the biathlon. Will this year's Olympics bring the first American medal in the biathlon?

Name: _____

The Biathlon

Questions

- _____ 1. Which two sports are parts of the biathlon?
- A. cross-country skiing and alpine jumping
 - B. cross-country skiing and shooting
 - C. alpine skiing and shooting
 - D. alpine skiing and jumping
- _____ 2. How long is a penalty loop?
- A. 200 meters
 - B. 15 kilometers
 - C. 150 kilometers
 - D. 150 meters
- _____ 3. Which race uses a time penalty?
- A. the relay
 - B. the pursuit
 - C. the individual
 - D. the sprint
- _____ 4. How many racers are on a relay team?
- A. six
 - B. two
 - C. four
 - D. five
- _____ 5. Women competed in the biathlon at the Olympics before men.
- A. true
 - B. false
- _____ 6. The United States has never won an Olympic medal in the biathlon.
- A. true
 - B. false
7. A _____ gun is used for shooting.

- _____ 8. The biathlon isn't very popular in Europe.
- A. false
 - B. true

| | | |
|----------------------------------|---|-----------|
| 1 km = 1,000 m 7 km = _____ m | Circle the complete subject in the following sentence. Seventeen beautiful eggs were decorated last night. | 30 ÷ 10 = |
|----------------------------------|---|-----------|

☐ What do you think it is like to be a biathlete? Does this sport interest you? Why or why not?

☐ The United States has never won an Olympic medal in the biathlon. What do you think would happen to the athlete who is the first to win a medal?

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Nordic Combined Event

Nordic combined is actually two events rolled into one. Competitors will do at least one ski jump. Following the ski jump, they will cross country ski over a certain distance. These two competitions were first practiced by members of the Norwegian military. The first recognized competition was held at a ski festival in 1892.

European countries such as Finland, Germany, and Austria have been the top competitors in Nordic combined for many years. Samppa Lajunen is a name recognized throughout Nordic competition as the best.

The order in which the Nordic events were run changed in the 1960s. Officials felt that this would make the event more exciting. In the past, the cross country was held and then the ski jumping. It was found that the winner was too often determined by the ski jumping.

Since the 1960s, the ski jump has been held first. The order and starting time the competitor is assigned in the cross country depends on how well he does in the ski jump.

There are three medal events for Nordic combined in the Olympics. The first is the individual race. This has also been called the individual Gunderson. The man who developed the point system was named Gunderson. In the individual event, a competitor will jump twice on the first day. He will begin at the top of a 295 foot hill. The ski jumps looks much like a slide attached to the hill. At the end of the slide, the skier flies into the air. He tries to reach for as much distance as he can. Points are awarded by the judges for distance and style. Style is how the skier looks in the air and how he lands.

On the second day, the skiers go on a 15 kilometer cross country trip. The skier with the highest score from the previous day's jump goes first. The next best finishers are sent according to their scores. Every 15 point difference in their scores means they start a minute later. Those who don't score well in the jump will have a lot of time to make up. The first competitor to cross the finish line is the winner.

The second Olympic event is called the sprint. This event is much like the individual. The only differences are that there is only one jump per contestant. The hill is higher. They are now jumping from a 394 foot hill. The cross country is shorter. It is only 7.5 kilometers. Scoring is the same. Racers are sent on the cross country in the same manner.

The third Olympic event is the team event. Four people make up each team. All of the team members make



Name: _____

two jumps on the first day. Their scores are added. The team members are sent out on a relay according to their total score. In the team competition, every 40 point difference in scoring means another minute later to start. Each team member completes a 5 kilometer leg of the relay.

Although this event is generally dominated by "cold weather" countries, it is gaining some popularity among other countries in other parts of the world. This event takes a combination of skills and determination. Watch for it in the next Olympic Games. See what you think!

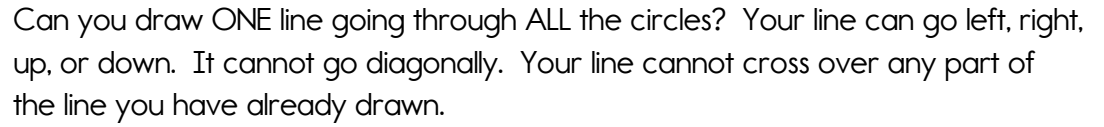
Nordic Combined Event

Questions

- _____ 1. Nordic combined consists of ski jumping and cross country skiing.
- A. true
 - B. false
- _____ 2. Where did the Nordic combined competition begin?
- A. Japan
 - B. Sweden
 - C. Norway
 - D. Denmark
- _____ 3. What is different about the sprint from the individual race?
- A. The sprint has a higher jump and a longer cross country.
 - B. The sprint has a lower jump and a longer cross country.
 - C. The sprint has a higher jump and a shorter cross country.
 - D. The sprint has a lower jump and a shorter cross country.
4. Why do you think most of the winners in the Nordic combined have come from northern European countries?

- _____ 5. How many jumps does a participant in the team event have to make?
- A. one
 - B. two
 - C. four
 - D. three
- _____ 6. How many people are on a Nordic combined team?
- A. four
 - B. one
 - C. three
 - D. two

A. Gunderson
B. Finland
C. Japan
D. Swenson



The puzzle on the left shows a correct line going through all the circles.

A 6x6 grid with a black dot at (3,3) and a green path starting from (3,3), moving right to (4,3), then down to (4,4). There are white circles at (1,5), (2,1), (3,5), (5,1), and (6,4).

$$\begin{array}{r} 45 \\ + 36 \\ \hline \end{array}$$

Name: _____

When the aerals finals begin, Sarah and Megan both have scores of 83.91. Sarah scores 42.49 and 44.86 on her finals jumps. What is the minimum final score Megan must have to win? Assume the final score = score for all her jumps.

An ice hockey game is made up of three 20-minute periods with a 15-minute intermission after each of the first and second periods. A game started at 5:21 p.m. The clock was not stopped during the game. At what time did the game end?

Thirty-two women will compete in the qualification round of the moguls competition. The starting order is decided by a random drawing. Two of the women are from Canada. What is the probability a Canadian woman will start first?

Jason needs new skates. He can buy a pair of Vector Pro skates on sale for \$265.78 or a pair of Super Tacks on clearance for \$145.78. How much will he save if he buys the Super Tacks?

$$4 + 8 + 7$$

$$5 - (9 - 8) + 6$$

9, 63, 66, 462,
_____, 3255, 3258,
—, —

Name: _____

An ice hockey game is made up of three 20-minute periods with a 15-minute intermission after each of the first and second periods. A game started at 5:24 p.m. The clock was not stopped during the game. At what time did the game end?

Sarah practices ice hockey for $2\frac{1}{4}$ hours a day, 5 days per week. How many hours does she practice in a month (5 weeks)?

Emily bought a set of 18 Olympic freestyle skiing posters for \$290. If she had bought them one at a time, she would have paid \$20.51 per poster. How much did she save by buying all 18 at one time?

David needs new skates. He can buy a pair of Vector Pro skates on sale for \$260.66 or a pair of Super Tacks on clearance for \$168.69. How much will he save if he buys the Super Tacks?

$$30 + n = 44$$

What is 50% of 860?

How many centimeters in 490.5 meters?

word root **prim** can mean **first**

prime, primary

Name: _____

Adam's hockey game began at 6:15 p.m. It ended $1\frac{3}{5}$ hours later. At what time did the game end?

Wang Jiao and Zhao Shanshan, both from China, finished first and second in the World Cup Freestyle Aerials competition. Wang Jiao scored 178.48. Zhao Shanshan scored 172.67 points for her second place finish. What was the point difference between first and second places?

Thirty-two women will compete in the qualification round of the moguls competition. The starting order is decided by a random drawing. Four of the women are from Canada. What is the probability a Canadian woman will start first?

Jessica bought a set of 18 Olympic freestyle skiing posters for \$290. If she had bought them one at a time, she would have paid \$20.66 per poster. How much did she save by buying all 18 at one time?

$$\frac{-8}{-1} =$$

$$120 \div -12 =$$

$$-9 + -6 =$$

Name: _____

Thirty-two women will compete in the qualification round of the moguls competition. The starting order is decided by a random drawing. Three of the women are from Canada. What is the probability a Canadian woman will start first?

Approximately 9,000 spectators can watch each freestyle skiing event. There are 6 events including the qualifications and finals. If all the tickets are sold for an average price of \$189, how much money will be paid for tickets?

Emily practices ice hockey for $2\frac{1}{4}$ hours a day, 5 days per week. How many hours does she practice in a month (4 weeks)?

When the aerials finals begin, Ava and Holly both have scores of 83.92. Ava scores 43.5 and 41.89 on her finals jumps. What is the minimum final score Holly must have to win? Assume the final score = score for all her jumps.

Write the reciprocal.

$$\frac{2}{6}$$

Write the reciprocal.

$$\frac{11}{18}$$

Write the reciprocal.

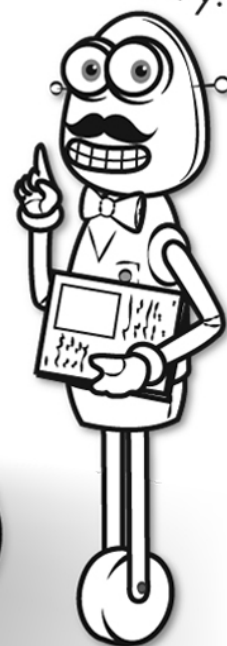
11

word root **inter** can mean **between** **interstate, international**



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+ =
- ÷
< >

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