비상(홍민표)



3.Sports and Science Get Along_비상(홍민표)



◇「콘텐츠산업 진흥법 시행령」제33조에 의한 표시

1) 제작연월일 : 2020-01-06

2) 제작자 : 교육지대㈜

3) 이 콘텐츠는 「콘텐츠산업 진흥법」에 따라 최초 제작일부터 5년간 보호됩니다.

◇「콘텐츠산업 진흥법」외에도「저작권법」에 의하여 보호 되는 콘텐츠의 경우, 그 콘텐츠의 전부 또는 일부를 무 단으로 복제하거나 전송하는 것은 콘텐츠산업 진흥법 외에도 저작권법에 의한 법적 책임을 질 수 있습니다.



핵심문법 원급을 이용한 배수 표현과 관계부사

- 원급을 이용한 배수 표현: [배수사 + as + 원급 + as]
- → '~보다 몇 배 더한'이라는 뜻으로, twice, three times와 같은 배수사와 형용사의 원급을 활용하여 배수를 표현한다.
- → [배수사 + the + 도량형 명사 + of] 또는 [배수사 + 비교급 + than]으로도 같은 뜻을 표현할 수 있다.
- 과계부사
- → 두 문장을 하나로 연결하는 [접속사 + 부사]의 역할을 하며, 선행사에 따라 where(장소), when(시간), why(이유), how(방 법)가 있다
- → 불완전한 절을 이끄는 관계대명사와 달리, 관계부사는 완전한 절을 이끈다.



대표유형 시험에 자주 출제되는 유형의 문제를 꼭 확인하세요!!

- ★❶ [문법] 본문에 사용된 어법의 옳고 그름 구분하기
- ★❷ [독해] 논리적 흐름에 맞게 글의 순서 배열하기
- ★❸ [독해] 글을 읽고 흐름에 맞는 연결사 고르기
 - ④ [독해] 논리적 흐름에 맞게 빈칸에 들어갈 말 고르기
- ★⑤ [독해] 글을 읽고 요약문의 빈칸에 적절한 단어 고르기
 - **③** [독해] 글의 내용을 읽고 흐름상 적절한 위치 고르기
 - **⑦** [독해] 문맥상 적절하게/어색하게 쓰인 어휘 고르기

독해유형 논리적 흐름에 맞게 글의 순서 배열하기

$oldsymbol{1}$. 주어진 글 다음에 이어질 글의 순서로 가장 적절 한 것은?

The problem for humans is that the harder they hit the ground, the more time they spend in the air, which makes their steps longer but reduces the number of steps they can take.

- (A) Many experts predict, however, that a human being could probably run the 100-meter sprint in just over nine seconds. Maybe future technology will help runners run even faster than they do today.
- (B) Unfortunately, this combination also depends on the runner's size, leg length, and other factors that vary among individuals.
- (C) Therefore, maximum running speed is attained when the combination of force applied to the ground and stride frequency is optimal.

① (A) - (C) - (B)

② (B) - (A) - (C)

③ (B) - (C) - (A)

④ (C) - (A) - (B)

⑤ (C) - (B) - (A)

독해유형 논리적 흐름에 맞게 빈칸에 들어갈 말 고르기

다음 빈칸에 가장 적절한 것은?

"Hurry! Hurry up!" Two people with brooms furiously sweep the ice in front of a rock that slides across a sheet of ice. "Whoa!" sweepers stop as the rock settles into the house. "Nice job!" All four players bump fists indicating success. Have you guessed the sport? It's called curling.

One might expect that a curling stone sliding across the ice would continue in a _____ line according to Newton's first law of motion. However, the stone will begin to curl when it loses its speed even though it is three or four times as heavy as a bowling ball. This is why players have to direct the stone's path carefully, and they do this by sweeping.

① curved

② random

3 diverse

(4) straight

(5) identical

3. 빈칸에 가장 적절한 것은?

One might expect that a curling stone sliding across the ice would continue in a straight line according to Newton's first law of motion. However, the stone will begin to curl when it loses its speed even though it is three or four times as heavy as a bowling ball. This is why players have to _____, and they do this by sweeping.

- 1) sweep the house
- ② make the stone curl
- 3) direct the stone's path carefully
- 4) continue to move backward
- (5) push a curling stone powerfully

독해유형 글을 읽고 요약문의 빈칸에 적절한 단어 고르기

다음 글의 내용을 표로 요약하고자 한다. 빈칸 (A), (B)에 들어갈 말로 가장 적절한 것은?

By rubbing the ice with the broom, the sweepers are generating heat to reduce friction between the stone and the ice. This results in the stone going straighter and farther. If the sweepers stop, the stone begins to curl again. Although the housethe area where the curlers aim the stone-is often blocked by an opponent's stone, curling teams can actually guide one stone behind another, which is one of the major strategic elements to the game. The precision with which the team can control the direction and speed of the stone is a major factor in the strategy of the game.

sweeping the ice \rightarrow ____(A)___ heat \rightarrow melts the ice into water \rightarrow ____(B)____ friction between the stone and the ice → the stone goes straighter and farther

(A) (B)

① generates reduces

2 reduces limits

③ destroys increases

(4) converts decreases

(5) removes eliminates

글의 흐름으로 보아, 주어진 문장이 들어가기에 가장 적절한 곳은?

Without them, a pitcher couldn't throw it as fast or as accurately.

The batter swings and hits a foul ball into the stands. You reach up with your glove and catch it as other spectators clap and cheer. You look at the baseball with its smooth leather covering and bright red stitches. (@) Do the stitches serve a purpose other than to keep the leather covering over the ball? ((b)) A typical baseball has 108 double hand stitches. (©) They serve more than just a decorative function. (@) The stitches on a baseball actually affect the flight of the ball. (@)

(1) (a)

(2) (b)

3 C

(4) (d)

(5) (e)

독해유형 문맥상 적절하게/어색하게 쓰인 어휘 고르기

(A), (B), (C)의 각 괄호 안에서 문맥에 맞는 낱말 로 가장 적절한 것은?

The batter swings and hits a foul ball into the stands. You reach up with your glove and catch it as other (A) [speculations / spectators] clap and cheer. You look at the baseball with its smooth leather covering and bright red stitches. Do the stitches serve a (B) [purpose / role] other than to keep the leather covering over the ball?

A typical baseball has 108 double hand stitches. They serve more than just a decorative function. The stitches on a baseball actually affect the (C) [weight / flight] of the ball. Without them, a pitcher couldn't throw it as fast or as accurately.

(C)

(A) (B)

① speculations purpose weight

② spectators flight

3 speculations purpose weight

flight 4 spectators purpose

(5) speculations role weight

7. 글의 흐름으로 보아, 주어진 문장이 들어가기에 가 장 적절한 곳은?

This is where the stitches come into play.

When a round object like a ball is thrown, the front part of the ball hits the air, increasing the air pressure there while the air becomes thinner at the back of the ball, making the air pressure low. (@) This difference in air pressure creates an unwanted effect called "drag" that literally drags the ball backward and slows it down. ((b)) The stitches more or less scoop the air and direct it inwards towards the back of the ball. (©) This effectively increases the net air pressure in the back of the ball, which reduces the drag. (@) Further, as a baseball is released, the pitcher can put spin on the ball. (@) As the ball spins, the stitches help the ball to fly in the direction the pitcher intends.

- (1) (a)
- ② **b**
- ③ ©
- (4) (d)
- (5) (e)

독해유형 논리적 흐름에 맞게 빈칸에 들어갈 말 고르기

8. 문맥상 (A)에 들어갈 말로 가장 적절한 것은?

Usain Bolt, the Jamaican sprinter, broke the world record for the 100-meter sprint in 2009, clocking a time of 9.58 seconds. Animals like the adult cheetah can run 100 meters in about six seconds. So what is the limit to (A)_____ _____?

Sports scientists say that sprinters' speed is influenced by how hard they hit the ground with their feet and by how many steps they take. Cheetahs do not hit the ground as hard as humans, but they can take twice as many steps as we do. This is why they can run fast.

- 1) how long a human can run
- 2 how human beings can run fast
- 3) how many meters animals can run
- 4) how fast a human can run 100 meters
- (5) the speed of the animals like the adult cheetah

주어진 글 다음에 이어질 글의 순서로 가장 적절 한 것은?

When a round object like a ball is thrown, the front part of the ball hits the air, increasing the air pressure there while the air becomes thinner at the back of the ball, making the air pressure

- (A) The stitches more or less scoop the air and direct it inwards towards the back of the ball. This effectively increases the net air pressure in the back of the ball, which reduces the drag.
- (B) Further, as a baseball is released, the pitcher can put spin on the ball. As the ball spins, the stitches help the ball to fly in the direction the pitcher intends.
- (C) This difference in air pressure creates an unwanted effect called "drag" that literally drags the ball backward and slows it down. This is where the stitches come into play.
- ① (A) (C) (B)
- ② (B) (A) (C)
- ③ (B) (C) (A)
- ④ (C) (A) (B)
- ⑤ (C) (B) (A)

문법유형 본문에 사용된 어법의 옳고 그름 구분하기

10. 다음 중 어법상 <u>틀린</u> 것은?

The batter swings and hits a foul ball into the stands. You reach up with your glove and catch it a as other spectators clap and cheer. You look at the baseball with its smooth leather covering and bright red stitches. Do the stitches serve a purpose other than **b** to keep the leather covering over the ball?

A typical baseball has 108 double hand stitches. They serve @more than just a decorative function. The stitches on a baseball actually @affect the flight of the ball. Without them, a pitcher @couldn't have thrown it as fast or as accurately.

- (1) (a)
- ② **b**
- ③ ©
- (4) (d)
- (5) (e)

11. 글의 흐름으로 보아, 주어진 문장이 들어가기에 가 장 적절한 곳은?

However, the stone will begin to curl when it loses its speed even though it is three or four times as heavy as a bowling ball.

Why Do Curlers Sweep the Ice?

"Hurry! Hurry up!" Two people with brooms furiously sweep the ice in front of a rock that slides across a sheet of ice. "Whoa!" The sweepers stop as the rock settles into the house. "Nice job!" All four players bump fists indicating success. Have you guessed the sport? It's called curling.

- (7) One might expect that a curling stone sliding across the ice would continue in a straight line according to Newton's first law of motion. (나) This is why players have to direct the stone's path carefully, and they do this by sweeping.
- (다) By rubbing the ice with the broom, the sweepers are eliminating heat to reduce friction between the stone and the ice. (라) This results in the stone going straighter and farther. (미) If the sweepers stop, the stone begins to curl again. Although the house—the area where the curlers aim the stone-is often blocked by an opponent's stone, curling teams can actually guide one stone behind another, which is one of the major strategic elements to the game. The precision with which the team can control the direction and speed of the stone is a major factor in the strategy of the game.

① (7)

② (나)

③ (다)

④ (라)

(5) (D)

문법유형 본문에 사용된 어법의 옳고 그름 구분하기

12. 다음 글의 밑줄 친 부분 중, 어법상 <u>틀린</u> 것은?

When a round object like a ball @ is thrown, the front part of the ball hits the air, increasing the air pressure there while the air becomes thinner at the back of the ball, (b) making the air pressure low. This difference in air pressure

creates an unwanted effect called "drag" © that literally drags the ball backward and slows it down. This is where the stitches come into play.

The stitches more or less scoop the air and d to direct it inwards towards the back of the ball. This effectively increases the net air pressure in the back of the ball, @ which reduces the drag. Further, as a baseball is released, the pitcher can put spin on the ball. As the ball spins, the stitches help the ball to fly in the direction the pitcher intends.

(1) (a)

(2) (b)

③ ©

(4) (d)

(5) (e)

문법유형 본문에 사용된 어법의 옳고 그름 구분하기

13. 다음 중 어법상 <u>틀린</u> 것은?

By rubbing the ice with the broom, the sweepers are generating heat @to reduce friction between the stone and the ice. This results in the stone going straighter and Dfarther. If the sweepers stop, the stone begins to curl again. Although the house-the area @where the curlers aim the stone -is often blocked by an opponent's stone, curling teams can actually guide one stone behind another, which is one of the major strategic elements to the game. The precision @which the team can control the direction and speed of the stone @is a major factor in the strategy of the game.

(1) (a)

(2) (b)

3 C

4 d

(5) (e)

독해유형 글을 읽고 흐름에 맞는 연결사 고르기

14. 빈칸 (A), (B)에 적절한 것끼리 짝지어진 것은?

The problem for humans is that the harder they hit the ground, the more time they spend in the air, which makes their steps longer but reduces the number of steps they can take. ___(A)___, maximum running speed is attained when the

combination of force applied to the ground and stride frequency is optimal.

Unfortunately, this combination also depends on the runner's size, leg length, and other factors that vary among individuals. Many experts predict, $_{--}(B)_{--}$, that a human being could probably run the 100-meter sprint in just over nine seconds. Maybe future technology will help runners run even faster than they do today.

(A) (B)

① Thus in addition

② In addition however

3 Therefore however

4 Besides consequently

(5) Consequently that is

독해유형 글을 읽고 요약문의 빈칸에 적절한 단어 고르기

15. 다음 글의 내용을 한 문장으로 요약하고자 한다. 빈칸 (A), (B)에 들어갈 말로 가장 적절한 것은?

When a round object like a ball is thrown, the front part of the ball hits the air, increasing the air pressure there while the air becomes thinner at the back of the ball, making the air pressure low. This difference in air pressure creates an unwanted effect called "drag" that literally drags the ball backward and slows it down. This is where the stitches come into play.

The stitches more or less scoop the air and direct it inwards towards the back of the ball. This effectively increases the net air pressure in the back of the ball, which reduces the drag. Further, as a baseball is released, the pitcher can put spin on the ball. As the ball spins, the stitches help the ball to fly in the direction the pitcher intends.

Stitches ____(A)___ the drag by directing the air ____(B)___ towards the back of the ball.

(A) (B)

① increases inwards

2 maximize outwards

③ minimize outside

4 decrease inside

(5) reduce stagnant

정답 및 해설

1) [정답] ⑤

[해설] 주어진 글은 '인간의 문제점은 땅을 세게 박찰수록 공중에서 더 많은 시간을 보낸다는 것인데, 이것은 보폭을 더 길게 만들지만 내딛는 걸음의수를 줄인다'라는 뜻이므로 (C)가 그 다음으로 나와 최대 달리기 속도에 대해서 얘기하는 것이 옳다. 그 다음으로는 속도에 영향을 끼치는 다른 요소에 대해서 얘기하는 (B)가 나오고, 그 이후로미래를 예측하는 (A)가 나오는 것이 적절하다.

2) [정답] ④

[해설] 운동의 제 1법칙에 따라 컬링 스톤이 계속 '독 바로'움직일 것이라 생각하지만 얼음에서 휘어진 다고 하는 것이 맥락상 가장 적절하므로 빈칸에 는 '직선의'라는 의미의 straight가 적절하다.

3) [정답] ③

[해설] 이 글의 맥락상 빈칸에는 '컬링 스톤의 진로를 잘 이끌어야 한다'라는 말이 들어가고 그 이후에 이것을 빗자루를 씀으로서 한다고 해야 적절하다. 그러므로 정답은 ③번이다.

4) [정답] ①

[해설] 얼음을 문지르게 되면 열을 '발생시킨다'고 해야 하니 (A)에는 generates가 알맞고, 결국 얼음이 물로 녹게 되면 마찰력이 '줄어든다'고 봐야하므로 (B)에는 reduce가 알맞다.

5) [정답] ⑤

[해설] 주어진 문장은 '그것들이 없다면 투수는 공을 빠르고 정확하게 던질 수 없을 것이다'라는 뜻이 므로 그 전에 실밥이 영향을 미친다는 내용이 와야 한다. 그러므로 ⑤번 자리가 가장 적절하다.

6) [정답] ④

[해설] 맥락상 (A)에는 '관중'이라는 의미의 spectators가 와야 하며, (B)에는 serve a purpose라는 표현으로 '목적을 갖다'라는 의미가 되어야 옳다. (C)에는 공의 '비행'에 영향을 미친다고 해야 하므로 flight가 옳다. speculations는 '추측', role은 '역할', weight는 '무게'라는 뜻이다.

7) [정답] ②

[해설] ②번 전까지는 stitches에 대한 얘기가 하나도 나오지 않다가 ②번 이후로 stitches에 관한 얘기가 나오는 것으로 보아 ②번 자리에 넣어서 야구 공에서 실밥의 역할에 대한 얘기를 좀 더 이어갈 수 있게 해주어야 한다.

8) [정답] ④

[해설] 치타는 100미터를 6초 안에 달릴 수 있다는 말 뒤에 그러면 '인간이 100미터를 얼마나 빨리 달릴 수 있는지에 대한 한계는 무엇일까?'를 묻는 것이 자연스럽다.

9) [정답] ④

[해설] 주어진 문장은 공을 던지면 공 뒤쪽의 공기가 희박해지고 기압이 낮아진다는 것이다. 그 다음으로는 (C)가 나와서 이 현상을 drag라고 설명하고 있으며, 여기서 실밥이 어떤 역할을 하는지에 대해서 설명하고자 했다. 그 다음으로는 (A)가 나와서 실밥의 역할을 좀 더 구체적으로 설명하고, 맨 마지막으로는 (B)가 나와서 실밥의 역할을 하나 더 소개하는 것이 글의 맥락상 자연스럽다.

10) [정답] ⑤

[해설] 가정법 표현으로 '그것들이 없으면 투수가 공을 그만큼 빠르고 정확하게 던질 수 없을 것이다.'의 의미가 되어야 하므로 가정법 과거 couldn't throw로 바꾸어야 한다.

11) [정답] ②

[해설] 주어진 문장은 '하지만 스톤은 볼링공보다 서 너 배 더 무거울지 몰라도 속도를 잃으면 휘어나가기 시작한다.'의 내용이다. 따라서 '얼음위에 미끄러지는 컬링 스톤이 뉴턴의 '운동의 제1법칙'에 따라 계속 똑바로 미끄러질 것이라고 예상할지도 모른다.'라는 문장 뒤인 (4)가 적절한 위치로 알맞다.

12) [정답] ④

[해설] ④번이 속한 문장에서 주어는 The stitches가 되며 첫 번째 동사는 scoop이고, 두 번째 동사가 direct이기 때문에 병렬구조에 의해서 direct의 형태가 되어야 어법상 옳다.

13) [정답] ④

[해설] 종속절의 원문장이 'the team can control the direction and speed of the stone with the precision'이다. 즉, the precision은 with 의 목적어이므로 관계대명사 which앞에 with를 함께 써주어야 옳다.

14) [정답] ③

[해설] (A)에는 '따라서, 그러므로'라는 의미의 therefore, thus가 가능하고, (B)에는 '그러나'라는 의미의 however가 들어가야 맥락상 적절하다.

15) [정답] ④

[해설] 요약된 문장은 '실밥은 공의 뒤쪽 공기를 (B) 쪽으로 향하게 하면서 항력을 (A)해준다.'라고 해석이 되므로 (A)에는 reduce, decrease가 가능하며, (B)에는 inwards, inside가 가능하다. 그러

므로 정답은 ④번.