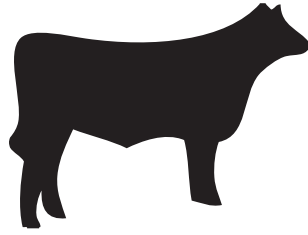# Is it True or False?

Read the following statements about Dr. Temple Grandin and how to move cattle. Use the information that you have read to decide if the statements are true or false. If the statement is false, rewrite it to make it a true statement.

1. Dr. Grandin found that cattle like dark, tight spaces.

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2. Standing behind cattle is a safe place to stand when moving cattle.

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3. The flight zone is the distance a person needs to stay away from an animal to keep it calm.

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4. Dr. Grandin was named Time Magazine's most influential person in 2010.

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5. Dr. Grandin has two Animal Science college degrees.

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6. Flight zones for cattle in a pasture are always different than when they are in a pen.

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7. When Temple was in college, she realized that cattle think in the same way as her.

_____

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Thinking in PICTURES

Temple Grandin was born in 1947 and grew up with autism. Autism means that a person's brain works different. For Temple, she did not talk until after she was three. Temple thinks in pictures. For instance, if she hears the word "cattle," she quickly sees many pictures of cattle in her mind.

In 1961, she spent the summer at her aunt's ranch. While on the ranch, Temple noticed that cattle see the world in much the same way as her. Cattle notice details in the world around them which most people miss. Temple grew to love animals.

She earned her master's degree in Animal Science in 1975. In 1976, she invented the curved chute system for moving cattle. She earned her doctorate degree in Animal Science in 1989.

Dr. Grandin's research led her to believe the way animals are moved can cause pain, stress, and fear. When cattle are moved on wet or slick slopes, or in poorly lit areas, they can be hurt. She believes this is cruel. In order to design a better system for moving cattle, she crawled through the alleyway, or walkway, like a cow. Temple did this because she often thinks like cattle. By going through the alleyway, she realized cattle like pens and chutes with solid sides and well lit areas. This keeps them free from distractions, dark tight spaces, and shadows, all of which could scare them. She also noticed that cattle tend to move in a circle around their handlers. By building a curved walkway with solid walls and non-slip floors the cattle can move in a single file line. This allows cattle to be moved calmly.

Today, half of the cattle in the United States and Canada meat processing plants are handled using Dr. Grandin's curved chute design. Dr. Grandin was inducted into the National Cowgirl Hall of Fame in 2010. She was named one of Time magazine's 100 most influential people in 2010.

Oklahoma Ag in the Classroom

CATTLE FLIGHT ZONE

Dr. Grandin talks to cattle owners about how to move cattle calmly. She teaches the owners how to know where the flight zone and point of balance are for the cattle. The flight zone is how far from the animal a person must stay to keep the animal calm. You can find the flight zone by slowly walking up to the animal. Walking up to an animal's head increases its flight zone. If a person is in the flight zone the animal will move away.

For most animals, the point of balance is at their shoulder. When the handler stands at or behind the point of balance, the animal will move forward. They will back up if you stand in front of the shoulder. Avoid standing at the head of an animal. You should also avoid standing in the animals blind spot, which is behind them.

When a herd, or group, of cattle are moved in pastures and large pens, their behavior is usually different because they are not in a small pen. A chute is an alleyway, or walkway, that people use to walk cattle to a pen. Because the area is small the cattle can feel more nervous. The flight zone may be different for a herd of cattle in pastures, because a pasture is a larger area.

Calm livestock can be harder to move because they no longer have a flight zone. This is because they are not afraid of people and want to move to them instead of away from them. These animals can often be led using a halter or feed bucket. When cattle are used to the person and the person stays calm, the animal learns to trust them.

Blind Spot

Edge of Flight Zone

Point of Balance
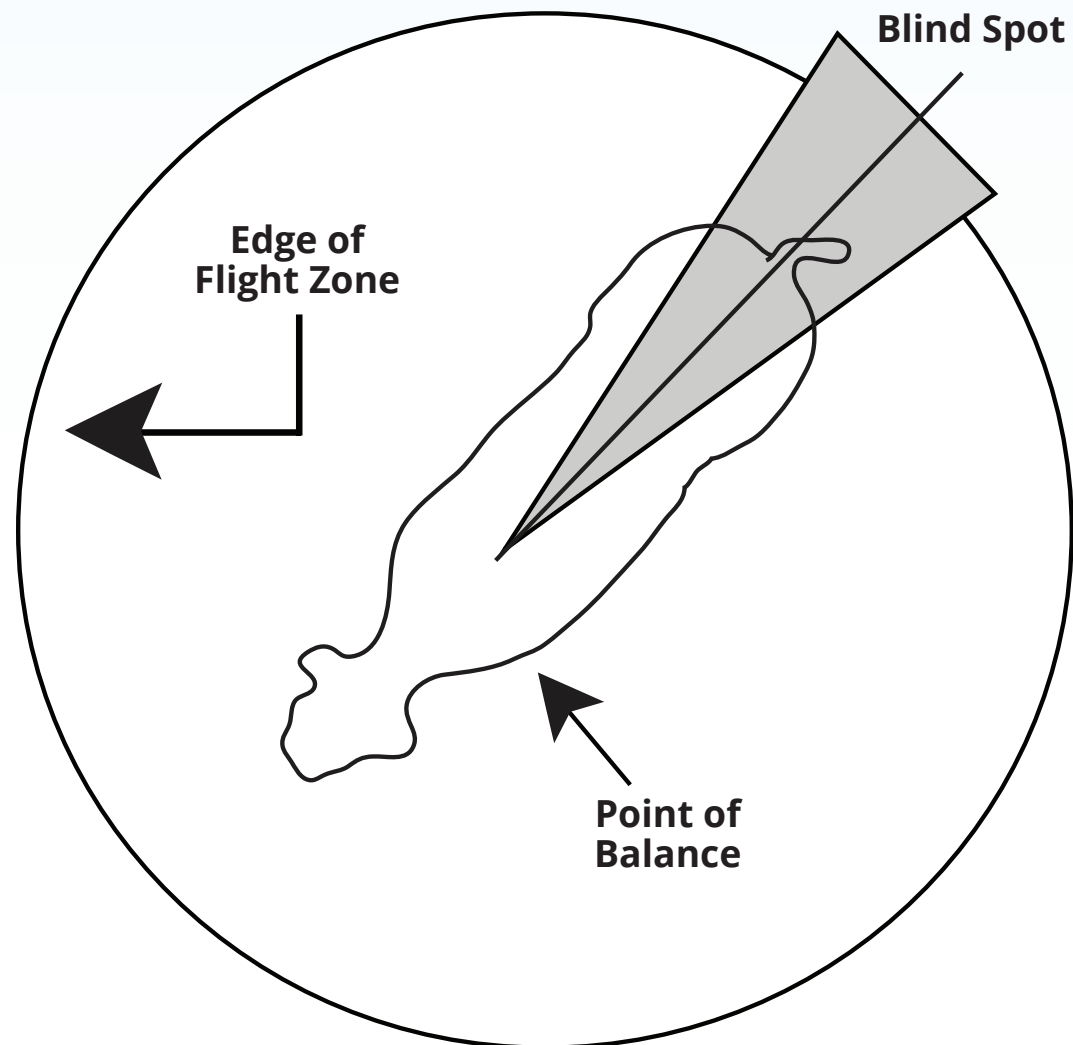
Based on what you have read, draw a person standing in a safe area. Also, show where a person should not stand.

Draw a picture in each thought bubble to show what each word looks like in your mind. Make each person look like you.

CATTLE

RANCH