



1. A student argues that stars appear dimmer than the Sun because they are farther away from Earth. Which experiment using a lamp and light meter that measures brightness will provide data to support the argument?

A

Test	Lamp	Distance: Light to Light Meter (meters)
1	lamp with one light bulb	10
2	lamp with one light bulb	10

C

Test	Lamp	Distance: Light to Light Meter (meters)
1	lamp with two light bulbs	10
2	lamp with one light bulb	10

B

Test	Lamp	Distance: Light to Light Meter (meters)
1	lamp with one light bulb	10
2	lamp with one light bulb	50

D

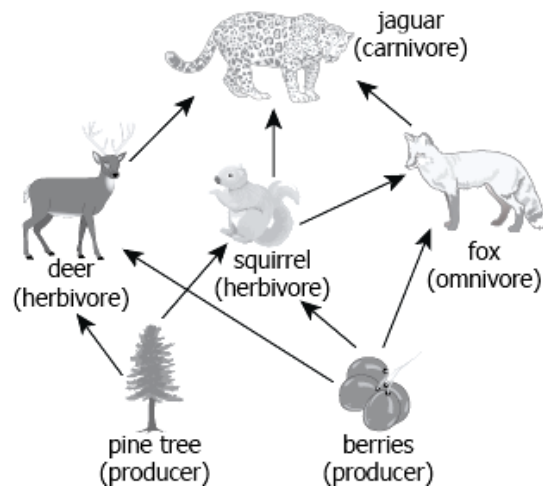
Test	Lamp	Distance: Light to Light Meter (meters)
1	lamp with two light bulbs	10
2	lamp with one light bulb	50

2. A teacher mixes bananas, strawberries, and milk to make a drink. The bananas, strawberries, and milk have a total mass of 10 grams before the teacher mixes them.

What is the mass of the drink after mixing?

- A 5 grams
- B 6 grams
- C 8 grams
- D 10 grams

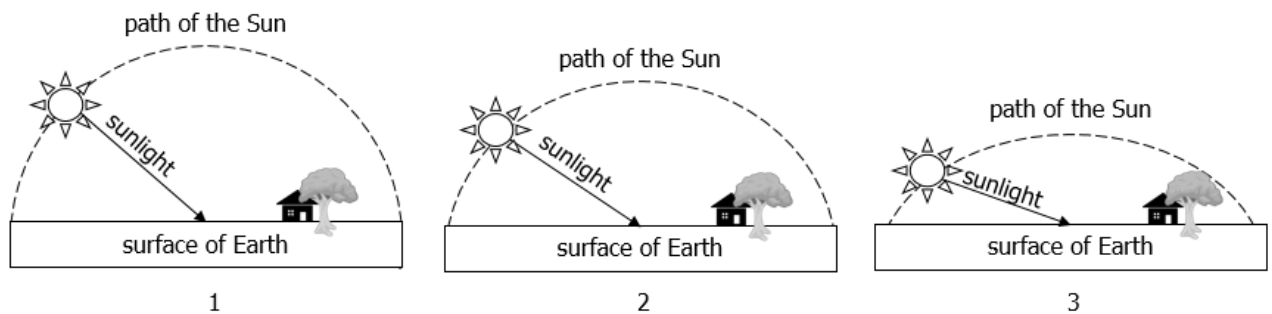
3. The image shows a food web.



How do deer obtain food?

- A** by eating berries only
- B** by eating jaguars only
- C** by eating jaguars and squirrels
- D** by eating pine trees and berries

4. A student draws three models at the same time of day.



The student claims that model 1 shows summer. Is the student correct, and why?

- A** Yes. Model 1 shows the path of the Sun with the smallest angle of sunlight.
- B** Yes. Model 1 shows the longest daylight hours, which cause the warmest temperatures.
- C** No. Model 2 shows the path of the Sun with the largest angle of sunlight.
- D** No. Model 3 shows the longest daylight hours, which cause the warmest temperatures.