

Games in Space: On Earth, an astronaut throws a ball straight upward, and it stays in the air for a total of 3.0s before they catch it at the same height they released it. On the Moon, acceleration due to gravity is ? 1/6 the value on Earth. If the astronaut repeats this process on the Moon, giving the ball the same initial speed, how much time would pass before they catch it

if an object is thrown upwards and then it will return back into our hand then we can say for the complete motion the displacement of the object must be zero

so here we will have

here we know that

now we will have this time $t = 3$ s on the surface of earth

again same experiment is performed on surface of moon with same initial speed

so the time on the surface of moon will be

so here we have

so it will take 18 s on moon

What is the difference between upwelling and downwelling?
PLEASE HELP!!!! The density of Earth's crust is

- 1) less than the density of the outer core but greater than the density of the mantle
- 2) greater than the density of the outer core but less than the density of the mantle
- 3) less than the density of both the outer core and the mantle
- 4) greater than the density of both the outer core and the mantle

What should you avoid in order to make a more credible argument? A. Dramatic monologues

B. Logical fallacies

C. Logos, pathos, and ethos

D. External conflict

Write an equation for an exponential growth function where the initial population is 80 and the population quadruples during each time period.

What's the nonpermissible replacement for n in this expression?

$-1/4n$

The _____ was formed by twelve member countries with the primary motivation of reasserting the region's economic position against the United States and Japan.

Which of the following is not part of Oceania? A. Australia

B. New Zealand

C. Japan

D. Polynesia

\$1,000 is invested at a rate of 3.25%, compounded annually. Identify the compound interest function that models the situation. Then find the balance after 8 years.

Instead of canceling their contract, William, Laverne, and Laverne's mother, Irma, form another contract in which they all agree that William will paint Irma's home instead of Laverne's. This new agreement is known as:

a. a breach of contract.

b. substantial performance.

c. a reformation.

d. a novation.

As I understand, it's one of the last two. Probably a novation,

What is the formula to get answer to this question: Dayo read $\frac{4}{5}$ th pages of a story which has 500 pages. How many pages is not yet read by Dayo

The length of a rectangle is 6 m longer than its width. If the perimeter of the rectangle is 32 m, find its area.

Which theory of matter states that all particles of matter are in constant motion?

What was found on the New York City subway?

By 1935 the proportion of women workers in the USSR's workforce was _____ in every five.

Shara is a very good listener, and she has a knack for putting people at ease whenever they feel uncomfortable. According to Gardner's theory of intelligence, Shara would be high in _____ intelligence.

15 points! bonus! how do you work out your mass? trying to revise and can't find it in book :(

Which phrases name parts of the Populist Party's program? Choose all answers that are correct.

direct election of U.S. senators by the people, not by state legislatures

protection against consumer fraud

more government loans for farmers

a flat income tax—everyone pays the same rate or percentage

The mineral benitoite is a gemstone for making jewelry. It has a molecular weight of 413.44 grams/mole and a percent composition of 33.21% Ba, 11.58% Ti, 20.38% Si, and 34.83% O. What is the molecular formula? A.

BaTiSi₃O₉

B.

Ba₂TiSi₂O₃

C.

BaTiSi₃O₆

D.

BaTiSi₆O₉

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