

Exponent Practice 2 (KEY)

Write the following equations algebraically. Check answers using the graphing calculator. Round answers to the nearest hundredth, if necessary.

1. $x^2 + 4 = 20$
 $x = 4$

2. $x^2 + 24 = 200$
 $x = 14$

3. $x^2 + 2 = 20$
 $x = 4$

4. $\frac{x}{20} = x^2$
 $x = 0$

5. $x^2 + 2 = 200$
 $x = 13.96$

6. $x^2 + 2 = 20$
 $x = 4$

7. Suppose that surface area of the shell of an egg is directly proportional to the _____ powers of the

mass of the egg. An average chicken egg has a mass of 60 grams, and it has a surface area of 200 cm².

(a) Which are the independent and dependent variables? What is the domain of the problem situation? What is the range?

Independent: mass of egg (g)

Dependent: surface area of egg (cm²)

60 g < x < 100 g

0 < y < 200

(b) Determine a formula to represent the relationship between the surface area of the shell of an egg and the mass of the egg.

$y = 0.0001x^2$

$y = 0.0001x^2$

(c) Which would be the surface area of an average egg that had a mass of 1,000 grams?

Surface area would increase without bounds

The surface area of the average egg would be approximately 100 cm²

(d) Which would be the mass of a smaller egg that had a surface area of 100 cm² based on the model in the previous part of the problem?

Exponent Practice Unit 08 Lesson 01

Christian Drosten



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web use the data sheet to answer this question the electronic structures of some atoms and ions are shown in figure 1 below figure 1 which structure represents an atom of sodium

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web nov 8 2023 assess students understanding of prior learning by revisiting the topic of atomic structure display this poster in your classroom before tasking 14 16 year old learners to draw electron configuration diagrams using the resource s easy to follow steps do some follow up some work with your students on the reactivity trends in groups 1 and 7

atomic structure the periodic table 3 1 1 save my exams - Nov 06 2022

web elements are arranged on the periodic table in order of increasing atomic number where each element has one proton more than the element preceding it hydrogen has 1 proton helium has 2 protons lithium has 3 etc the table is arranged in vertical columns called groups numbered i viii and in rows called periods elements in the same group have

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web atomic structure google classroom what three particles make up an atom choose 1 answer protons neutrons and photons a protons neutrons and photons positrons neutrons and electrons b positrons neutrons and electrons protons electrons and positrons c protons electrons and positrons protons neutrons and electrons d